



BaT project

Appendix I
Socio-economic assessment



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Appendix I. Socio-economic assessment

I.1 Evaluation of significance

The evaluation of significance used for this assessment considered the nature of the impact as well as the level of significance. The significance of the impact was determined by consideration of the:

- consequence of the impact, based on the extent, duration and severity of the impact
- likelihood, or probability of the impact occurring.

The nature of the impacts may be:

- positive – impacts have a positive or uplifting effect on the project-affected community and stakeholders and/or the quality of life of affected individuals, households or the community is improved
- negative – impacts have a negative or oppressive effect on the project-affected community and stakeholders, and/or the quality of life of affected individuals, households or the community is diminished
- neutral – impacts are neither positive nor negative in nature.

I.1.1 Consequence

The consequence of the impact refers to the degree of benefit or social cost associated with the impact. The criteria for predicting consequence in social impact assessment can include:

- extent or scale of the impact (refer to **Table I-1**)
- duration/ reversibility of the impact (refer to **Table I-2**)
- severity of the impact (refer to **Table I-3**).

Criteria assessing consequence are set out in **Table I-2** to **Table I-3**.

The consequence of an impact is assessed as the extent plus duration plus severity.

Table I-1 Extent or scale of impact

Category	Description
Site specific	Property owners, near neighbours, businesses and social infrastructure immediately affected or adjacent to the Project
Areas near the Project	Residents, businesses of local communities in or near to the study corridor
Regional	Substantially beyond the study corridor (ie Greater Brisbane/ South East Queensland)
State	Queensland
National or international	Australia or overseas

Table I-2 Duration of impacts

Construction	Operation
Effect is likely to occur over period less than two weeks	Effect likely to occur for less than one year
Effect is likely to occur over period up to two months	Effect likely to occur between 1-5 years
Effect likely to occur for period of 2-6 months	Effect likely to occur for period of 5-25 years
Effect likely to occur for period of 6-12 months	Effect likely to occur for period of 25-50 years
Effect likely to occur over long period of time (ie more than 12 months)	Effect likely to occur for period of more than 50 years

Table I-3 Magnitude or severity of impact

Construction	Operation
Negligible impact/ improvement to quality of life and/ or the social or cultural environment, effect is unlikely to be detectable by more than a few individuals	Negligible impact/ improvement to quality of life and/ or the social or cultural environment, effect on local populations is unlikely to be detectable, repairable over time
Minor impact/ improvement to quality of life and/ or social functioning, effect is likely to be minor and easily tolerated, and unlikely to have any impact on quality of life or socio-economic conditions	Minor changes to the social environment and unlikely to have any significant impact/ benefit on quality of life or socio-economic conditions, effect may be detectable, but minor and easily reversible over time
Effect is likely to have an impact/ or benefit for quality of life or socio-economic conditions for a small geographic area or proportion of the community relative to the catchment population	Effect will have a moderate benefit/ impact on quality of life or socio-economic conditions, social environment altered but systems continue to function
Effect likely to impact/ benefit on quality of life or socio-economic conditions for a large number of people relative to the catchment population, and/ or likely to affect vulnerable groups.	Effect is likely to have large, but temporary impact/ benefit on quality of life or socio-economic conditions and/or likely to affect vulnerable groups, serious social issues/ temporary cease of systems functioning
Effect likely to have an impact/ on quality of life or socio-economic conditions which is difficult to mitigate	Effect is likely to negatively affect/ or have a significantly positive and enduring impact on a large proportion of the catchment population and quality of life or socio-economic conditions, irreparable damage to/ destruction of highly valued items of great social significance or complete breakdown of social order

I.1.2 Likelihood

The likelihood descriptors used for this assessment are described in **Table I-4**.

Table I-4 Likelihood descriptors

Descriptor	Description
Rare	
Unlikely	Less than 10 per cent chance of impact occurring
Possible	10-50 per cent chance of impact occurring
Probable	50-90 per cent chance of impact occurring
Almost certain	Greater than 90 per cent chance of impact occurring

I.2 Population and demographic characteristics

I.2.1 Population and growth

Table I-5 Population growth, 2002-2012

Location	Population (number)		Average annual growth rate (%)
	2002	2012	2002-2012
Study area	29,627	44,532	4.2
Fairfield-Dutton Park	3,593	4,432	2.1
Annerley	9,191	11,417	2.2
Woolloongabba	3,798	5,330	3.4
Kangaroo Point	6,035	7,627	2.4
Brisbane City	3,206	9,656	11.7
Spring Hill	3,804	6,070	4.8
Brisbane LGA	908,289	1,110,473	2.0
Queensland	3,653,123	4,565,529	2.3

Source: Queensland Treasury and Trade, 2014

Table I-6 Projected population growth, 2011-2036

Location	Year				Average annual growth rate (%)
	2011	2016	2026	2036	2011-2036
Study area	43,512	49,356	57,911	64,831	1.6
Fairfield-Dutton Park	4,287	5,026	5,522	5,541	1.0
Annerley	11,273	11,576	11,733	11,830	0.2
Woolloongabba	5,082	6,392	12,268	16,930	4.9
Kangaroo Point	7,527	8,371	9,341	11,378	1.7
Brisbane City	9,356	11,802	12,662	12,728	1.2
Spring Hill	5,987	6,189	6,385	6,425	0.3
Brisbane LGA	1,089,879	1,176,418	1,310,033	1,440,223	1.1
Queensland	4,476,778	4,946,319	6,007,578	7,095,177	1.9

Source: Queensland Government population projections, 2013 edition; Australian Bureau of Statistics, Population by Age and Sex, Regions of Australia, 2012 (Cat no. 3235.0)

I.2.2 Age profile

Table I-7 Age profile, 2012

Location	0-14 years (%)	15-24 years (%)	25-44 years (%)	45-64 years (%)	65 years or over (%)	Total	Median age (years)
Study area	9.2	19.1	43.8	19.8	8.1	44,532	31.3
Fairfield-Dutton Park	13.8	21.0	35.0	20.2	10.0	4,432	31.8
Annerley	13.3	17.3	42.1	19.6	7.8	11,417	32.0
Woolloongabba	10.4	21.7	41.2	18.4	8.4	5,330	30.7
Kangaroo Point	6.4	14.1	43.2	23.2	13.1	7,627	34.6
Brisbane City	5.3	23.1	46.8	19.6	5.3	9,656	29.9
Spring Hill	6.6	19.0	51.6	17.4	5.5	6,070	30.5
Brisbane LGA	17.5	15.5	32.7	22.7	11.6	1,111,217	34.6
Queensland	19.9	13.9	28.2	24.7	13.3	4,565,529	36.6

Source: Queensland Treasury and Trade, 2014

I.2.3 Cultural diversity

Table I-8 Cultural diversity, 2011

Location	Indigenous persons (%)	Overseas born (%)	Speaks language other than English at home (%)	Speaks English not well or not at all (%)	Total
Study area	0.9	36.7	21.7	9.3	40,809
Fairfield-Dutton Park	1.3	29.7	18.9	8.7	4,025
Annerley	1.2	31.7	27.9	9.2	10,664
Woolloongabba	1.4	35.6	16.7	13.1	4,789
Kangaroo Point	0.6	35.0	16.2	5.7	6,999
Brisbane City	0.4	44.5	26.1	10.2	8,705
Spring Hill	1.1	42.1	23.2	9.4	5,627
Brisbane LGA	1.4	28.3	14.6	8.1	1,041,841
Queensland	3.6	20.5	7.4	5.2	4,332,738

Source: Queensland Treasury and Trade, 2014 and Australian Bureau of Statistics, Census of Population and Housing, 2011

I.2.4 Population mobility

Table I-9 Population mobility, 2011

Location	Different address one year prior to 2011 Census		Different address five years prior to 2011 Census	
	People with different address (%)	Total persons	People with different address (%)	Total persons
Study area	28.6	40,449	58.4	39,213
Fairfield-Dutton Park	24.7	3,989	50.9	3,824
Annerley	23.6	10,527	52.8	10,015
Woolloongabba	27.9	4,740	55.2	4,579
Kangaroo Point	29.3	6,957	58.6	6,819
Brisbane City	32.6	8,644	64.6	8,493
Spring Hill	34.2	5,592	67.1	5,483
Brisbane LGA	18.5	1,028,616	45.7	975,999
Queensland	17.9	4,275,277	45.0	4,034,846

Source: Queensland Treasury and Trade, 2014 and Australian Bureau of Statistics, Census of Population and Housing, 2011

I.2.5 Households and families

Table I-10 Household composition, 2011

Area	Family households (%)	Lone person households (%)	Group households (%)	Total households (number)
Study area	51.3	33.8	14.9	16,231
Fairfield-Dutton Park	57.5	27.7	14.9	1,521
Annerley	56.1	31.2	12.7	4,341
Woolloongabba	51.3	32.2	16.5	1,814
Kangaroo Point	48.1	37.6	14.3	3,058
Brisbane City	50.0	34.3	15.7	3,352
Spring Hill	44.3	38.2	17.5	2,145
Brisbane LGA	68.8	24.0	7.2	380,777
Queensland	72.4	22.8	4.7	1,547,304

Source: Queensland Treasury and Trade, 2014 and Australian Bureau of Statistics, Census of Population and Housing, 2011

Table I-11 Dwelling type, 2011

Location	Separate house (%)	Semi-detached (%)	Apartment (%)	Total dwellings (number)
Study area	31.4	8.1	60.0	16,233
Fairfield-Dutton Park	63.8	5.1	30.7	1,521
Annerley	46.1	18.6	35.0	4,342
Woolloongabba	54.4	4.1	41.1	1,813

Location	Separate house (%)	Semi-detached (%)	Apartment (%)	Total dwellings (number)
Kangaroo Point	16.6	3.6	78.8	3,059
Brisbane City	9.3	1.2	88.7	3,354
Spring Hill	14.8	9.4	75.5	2,144
Brisbane LGA	70.9	9.7	18.8	380,774
Queensland	78.5	8.4	11.7	1,547,303

Source: Queensland Treasury and Trade, 2014 and Australian Bureau of Statistics, Census of Population and Housing, 2011

Table I-12 Housing ownership, 2011

Location	Fully owned (%)	Being purchased (%)	Rented (%)	Total households (number)
Study area	17.0	21.3	58.1	16,231
Fairfield-Dutton Park	22.3	24.6	49.9	1,522
Annerley	17.8	26.8	52.8	4,342
Woolloongabba	16.1	21.8	58.5	1,813
Kangaroo Point	18.7	18.8	59.9	3,059
Brisbane City	17.3	23.5	54.1	3,351
Spring Hill	11.1	18.6	67.3	2,144
Brisbane LGA	27.7	33.8	35.7	380,774
Queensland	29.0	34.5	33.2	1,547,304

Source: Queensland Treasury and Trade, 2014 and Australian Bureau of Statistics, Census of Population and Housing, 2011

Table I-13 Housing ownership, 2011 (per cent)

Location	Fully owned	Being purchased	Rented	Total
Study area	17.0	21.3	58.1	16,231
Fairfield-Dutton Park	22.3	24.6	49.9	1,522
Annerley	17.8	26.8	52.8	4,342
Woolloongabba	16.1	21.8	58.5	1,813
Kangaroo Point	18.7	18.8	59.9	3,059
Brisbane City	17.3	23.5	54.1	3,351
Spring Hill	11.1	18.6	67.3	2,144
Brisbane LGA	27.7	33.8	35.7	380,774
Queensland	29.0	34.5	33.2	1,547,304

Source: Queensland Treasury and Trade, 2014 and Australian Bureau of Statistics, Census of Population and Housing, 2011

I.2.6 Education

Table I-14 Level of schooling, 2011

Location	Did not go to school, or Year 8 or below (%)	Year 9 or 10 or equivalent (%)	Year 11 or 12 or equivalent (%)	Total (number)
Study area	3.4	10.5	73.1	36,326
Fairfield-Dutton Park	5.1	12.6	76.2	3,343
Annerley	4.4	12.4	74.4	8,981
Woolloongabba	5.7	11.5	71.7	4,171
Kangaroo Point	3.1	12.3	70.7	6,519
Brisbane City	1.1	6.6	73.1	8,171
Spring Hill	2.4	8.8	72.6	5,141
Brisbane LGA	5.1	18.1	69.4	825,353
Queensland	6.6	29.4	55.3	3,320,761

Source: Queensland Treasury and Trade, 2014 and Australian Bureau of Statistics, Census of Population and Housing, 2011

Table I-15 Non-school qualifications, 2011

Location	Bachelor degree or higher (%)	Advanced diploma or diploma (%)	Certificate (%)	Persons with qualification (%)	Total persons (number)
Study area	35.7	8.0	10.6	69.3	36,969
Fairfield-Dutton Park	37.1	6.9	11.5	63.4	3,443
Annerley	34.8	8.4	12.8	66.3	9,201
Woolloongabba	32.2	7.8	12.0	65.4	4,246
Kangaroo Point	34.2	9.0	11.5	70.4	6,576
Brisbane City	37.6	7.9	7.4	74.1	8,238
Spring Hill	38.2	7.4	8.9	72.3	5,265
Brisbane LGA	28.7	8.6	14.4	61.2	856,075
Queensland	15.9	7.5	19.9	54.2	3,456,875

Source: Queensland Treasury and Trade, 2014 and Australian Bureau of Statistics, Census of Population and Housing, 2011

I.2.7 Disadvantage and need for assistance

Table I-16 Level of disadvantage, 2011

Location	Quintile 1	Quintile 2	Quintile 3	Quintile 4	Quintile 5
Study area	5.3	14.3	26.5	27.0	26.9
Fairfield-Dutton Park	8.3	22.6	25.4	17.1	26.6
Annerley	0.0	20.6	30.8	29.2	19.4
Woolloongabba	11.2	18.3	33.5	37.0	0.0
Kangaroo Point	6.8	11.1	6.3	25.6	50.3
Brisbane City	2.4	8.7	20.9	18.7	49.4

Location	Quintile 1	Quintile 2	Quintile 3	Quintile 4	Quintile 5
Spring Hill	10.8	5.8	47.4	36.0	0.0
Brisbane LGA	6.6	9.7	19.1	24.2	40.4
Queensland	20.0	20.0	20.0	20.0	20.0

Source: Queensland Treasury and Trade, 2014

Table I-17 Need for assistance, 2011

Location	Need for assistance (%)	No need for assistance (%)	Total (number)
Study area	2.8	85.8	40,815
Fairfield-Dutton Park	4.1	91.3	4,027
Annerley	3.5	90.1	10,665
Woolloongabba	3.9	86.0	4,789
Kangaroo Point	3.6	84.4	7,000
Brisbane City	0.9	80.5	8,706
Spring Hill	1.6	83.3	5,628
Brisbane LGA	3.6	91.0	1,041,839
Queensland	4.4	89.6	4,332,738

Source: Queensland Treasury and Trade, 2014 and Australian Bureau of Statistics, Census of Population and Housing, 2011

I.2.8 Travel to work

Table I-18 Journey to work, 2011 (per cent)

Location	Train	Bus	Car (as driver or passenger)	Walked or cycled	Train and bus	Train and one other method (excl bus)	Bus and one other method (excl train)	Train and two other methods	Bus and two other methods (excl train)	Worked at home
Study area	4.1	10.3	40.1	23.7	1.0	0.3	0.9	0.2	0.1	3.7
Fairfield-Dutton Park	7.5	10.3	45.1	14.1	1.6	0.7	0.9	0.1	0.1	3.7
Annerley	5.5	13.3	50.2	8.9	1.5	0.4	0.9	0.2	0.1	3.6
Woolloongabba	5.3	15.7	42.6	15.5	1.5	0.2	1.2	0.4	0.0	2.9
Kangaroo Point	0.5	8.1	46.5	14.0	0.5	0.4	1.4	0.3	0.3	4.5
Brisbane City	3.1	8.2	26.6	45.1	0.6	0.3	0.4	0.2	0.1	4.0
Spring Hill	4.1	6.4	26.8	45.9	0.8	0.2	0.6	0.3	0.0	3.1
Brisbane LGA	5.0	8.1	58.7	5.9	0.9	1.3	1.0	0.3	0.1	4.1
Queensland	2.1	3.3	67.4	4.8	0.4	0.8	0.5	0.2	0.1	4.9

Source: Australian Bureau of Statistics, Census of Population and Housing, 2011

I.2.9 Income and employment

Table I-19 Annual personal income, 2011

Study area	Less than \$20,800 per year (%)	\$104,000 or more per year (%)	Median annual income (%)	Total (number)
Study area	28.3	10.3	38,985	36,973
Fairfield-Dutton Park	37.3	7.8	29,744	3,443
Annerley	29.8	6.6	36,244	9,202
Woolloongabba	33.9	6.2	31,096	4,247
Kangaroo Point	22.9	13.3	47,320	6,577
Brisbane City	25.6	14.9	45,552	8,239
Spring Hill	26.5	10.6	40,352	5,265
Brisbane LGA	31.5	8.8	36,237	856,077
Queensland	34.6	5.5	30,524	3,456,877

Source: Queensland Treasury and Trade, 2014 and Australian Bureau of Statistics, Census of Population and Housing, 2011

Table I-20 Unemployment and labour force, December quarter 2013

Study area	Unemployed (number)	Labour force (number)	Unemployment rate (%)
Study area	1,793	26,286	6.8
Fairfield-Dutton Park	225	2,658	8.5
Annerley	530	7,305	7.3
Woolloongabba	322	2,810	11.5
Kangaroo Point	263	5,228	5.0
Brisbane City	269	4,914	5.5
Spring Hill	184	3,372	5.5
Brisbane LGA	35,506	660,565	5.4
Queensland	147,149	2,510,977	5.9

Source: Queensland Treasury and Trade, 2014 and Australian Government Department of Employment, Small Area Labour Markets Australia

I.2.10 Worker population

Table I-21 Summary of worker characteristics, 2011

Demographic	Study area	Brisbane LGA	Queensland
Total workers	150,377	632,013	1,991,753
Labour force status – full time (per cent)	75.7	69.1	64.5
Labour force status – part time (per cent)	24.3	30.9	35.5

Demographic	Study area	Brisbane LGA	Queensland
Main industry of employment	<ul style="list-style-type: none"> Public administration and safety Professional, scientific and technical services Financial and insurance services Health care and social assistance Accommodation and food services 	<ul style="list-style-type: none"> Health care and social assistance Professional, scientific and technical services Public administration and safety Retail trade Manufacturing 	<ul style="list-style-type: none"> Health care and social assistance Retail trade Construction Manufacturing Education and training
Median income (\$)	67,331	53,693	45,711
Travel to work (%)			
Train only	16.3	5.8	2.1
Bus only	18.6	7.0	3.3
Train and bus	1.3	0.9	0.4
Train or bus and other method(s)	10.0	3.5	1.3
Private vehicle	31.0	60.2	67.8

Source: Queensland Treasury and Trade, 2014