

APPENDIX B

**SURVEY QUESTIONNAIRE
GREEN INFRASTRUCTURE NETWORK IN TAIPING**

INSTRUCTIONS

QUESTIONNAIRE ID NO:
SURVEY AREA:

*The purpose of this survey is to collect data for my PhD research at Universiti Teknologi Malaysia. The topic is on Green Infrastructure as Network of Spaces for Well-being of Urban Residents. This survey is to be filled in by urban residents in Taiping that have experience using the green infrastructure network within Taiping. The study was set up to give better understanding on the uses of green infrastructure and its effects to the residents. **Green infrastructure** is greenery and open spaces linked by streets, waterways and drainage ways around and between urban areas, at all spatial scales, for example, street planting along Jalan Kota towards Lake Garden. **Social spaces** such as home gardens and Esplanade are spaces that have direct relationship with urban residents, in which these are the spaces where the interaction between urban residents happen, either as individuals or in groups.*

Please answer the questions as accurately and completely as possible. The answers should reflect your experience in Taiping. The answer responses from the survey questionnaire are strictly for research purposes.

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SECTION 1: PERSONAL INFORMATION

Tick (✓) the box and fill in your answer in the provided blank.

<p>Are you a: <input type="checkbox"/> Resident <input type="checkbox"/> Visitor</p> <p>Q1. Gender: <input type="checkbox"/> Male <input type="checkbox"/> Female</p> <p>Q2. Ethnicity: <input type="checkbox"/> Malay <input type="checkbox"/> Chinese <input type="checkbox"/> Indian <input type="checkbox"/> Others, please, specify </p> <p>Q3. How old are you? </p> <p>Q4. Where do you live in Taiping? </p> <p>Q5. How long have you been living in Taiping? </p> <p>Q6. Highest level of education: <input type="checkbox"/> Primary school <input type="checkbox"/> Secondary school <input type="checkbox"/> College graduate <input type="checkbox"/> University graduate <input type="checkbox"/> Others, please specify</p>	<p>Q7. Occupation: <input type="checkbox"/> Professional and technical <input type="checkbox"/> Administration and managerial <input type="checkbox"/> Educational <input type="checkbox"/> Business <input type="checkbox"/> Agricultural <input type="checkbox"/> Service Job <input type="checkbox"/> Manufacturing <input type="checkbox"/> Others, please specify.....</p> <p>Q8. Monthly income in RM: <input type="checkbox"/> 500 – 1000 <input type="checkbox"/> 1001 – 2000 <input type="checkbox"/> 2001 – 3000 <input type="checkbox"/> 3001 – 4000 <input type="checkbox"/> 4001 - 5000 <input type="checkbox"/> 5001 and above. <input type="checkbox"/> Others, please specify</p>
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SECTION 2: USE AND FAMILIARITY OF GREEN INFRASTRUCTURE

Q9. Where do you go for leisure outdoor activities in Taiping?

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Q10. Please tick (√) the green infrastructure that you visit for activities in Taiping. (You can choose more than one answer).

- Lake Garden.
- Hill features (i.e. Larut Hill, Burmese Pool and D.O.Hill)
- Taiping zoo.
- Open space in town (i.e. Esplanade).
- Streets and green spaces along shop houses (e.g. at Jalan Kota and Jalan Taming Sari).
- Open spaces in your residential area and home gardens (e.g. playground and football field).
- Pocket space of historical, institutional and government buildings (e.g. Clock Tower, Prison, Majlis Perbandaran Taiping, library, hospital, school).
- Pocket space in town centre (e.g. at Laman Pasar).
- Green spaces along river (e.g. Batu Tugoh river).

List other space(s) that you use for activities other than the above, if any

Q11. Do you frequently use the green infrastructure in Taiping?

- Yes No

Q12. How frequently do you use the green infrastructure?

- Twice a week
- Once a week
- Once fortnightly
- Once a month

Others, please specify

Q13. I like spending time in the green infrastructure:

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Like it alone	5	4	3	2	1
With family	5	4	3	2	1
With friends	5	4	3	2	1
With neighbours	5	4	3	2	1
with significant others	5	4	3	2	1
With acquaintance who is local resident	5	4	3	2	1

SECTION 3: PROPERTIES AND ATTRIBUTES OF GREEN INFRASTRUCTURE

Q14. What mode of transportation you use to get to green infrastructure (e.g. to the Lake Gardens)?

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Q15. Why do you use the route mostly preferred to get to green infrastructure? (You may tick more than one choice).

- The road is the fastest and shortest ways to town.
- The trees and greenery along the road are nice.
- The signage is easy to read.
- The buildings are attractive.

Other(s), please specify

Q16. Features important to you for reference to get to places in Taiping.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Buildings (e.g. shop houses, clock tower, museum, prison).	5	4	3	2	1
Signage	5	4	3	2	1
Hill forests (Bukit Larut and Burmese pool)	5	4	3	2	1
The Lake Gardens including zoo and the Esplanade)	5	4	3	2	1
Institutional and governmental buildings (Majlis Perbandaran, library, hospital)	5	4	3	2	1
Streets (e.g. Jalan Kamunting, Jalan Simpang and others).	5	4	3	2	1

Q17. How much do you agree or disagree that the following green space can act as **landmark (point of reference)** for Taiping? (Circle your answer).

Feature	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
a) Lake Garden.	5	4	3	2	1
b) Hill features (e.g. Bukit Larut and Burmese Pool)	5	4	3	2	1
c) Taiping zoo.	5	4	3	2	1
d) Open space in town (e.g. Esplanade).	5	4	3	2	1
e) Streets and green spaces along shop houses (e.g. at Jalan Kota and Jalan Taming Sari).	5	4	3	2	1
f) Open spaces in your residential area and home gardens (e.g. playground and football field).	5	4	3	2	1
g) Pocket space of historical, institutional and government buildings (e.g. Clock Tower, Prison, Majlis Perbandaran Taiping, library, hospital, school).	5	4	3	2	1
h) Pocket space in town centre (e.g. at Laman Pasar).	5	4	3	2	1

Others, please provide the name of the place, if any.....

Q18. How much do you agree or disagree with the following statement about properties and attributes of green infrastructure in Taiping?

Properties and Attributes of Green Spaces	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Diversity					
a) Taiping has a variety of green infrastructure	5	4	3	2	1
b) Green infrastructure offers variety of activities.					
c) Green infrastructure rich in types of scenery.	5	4	3	2	1
d) Quantity of the green infrastructures attracts me to engage in outdoor activities	5	4	3	2	1
e) Green infrastructure’s conduciveness to a variety of activities induces residents to be outside home	5	4	3	2	1
Naturalness					
f) Green infrastructure in Taiping is natural.	5	4	3	2	1
g) Rich in a variety of natural elements e.g. lake, river, trees, hills, scenery.	5	4	3	2	1
h) The naturalness of green infrastructure environment attracts me to engage in outdoor activities	5	4	3	2	1

Coherence – legibility					
i) Green infrastructure offer landmarks for reference, thereby facilitating orientation and finding one's way.	5	4	3	2	1
j) It is a focal areas for activities (nodes).	5	4	3	2	1
Coherence –Accessibility (connectivity, proximity)					
k) There is a good connectivity among green infrastructures.	5	4	3	2	1
l) I can get access to any green space.	5	4	3	2	1
m) Connectivity of green infrastructure allows me to move easily from one space to another.	5	4	3	2	1
n) Accessibility of green infrastructure to one another ease me in going to places.	5	4	3	2	1
o) The green infrastructures are in proximity with one another.	5	4	3	2	1

SECTION 4: WELL-BEING EFFECTS FROM GREEN INFRASTRUCTURE

Q19. Do you think that **exercising** (e.g. jogging and walking) in green infrastructure as having beneficial effects to you?

- Yes No

Q20. If yes, what are the benefits? (You may tick more than one choice).

- I feel more active
 My body feels healthier
 I rarely fall sick
 I feel happier and more cheerful
 I feel free and energetic
 Other, please name the benefits

Q21. Do you think that **strolling, sightseeing and relaxing** in the green infrastructure as having beneficial effects to you?

- Yes No

Q22. If yes, what are the benefits? (You may tick more than one choice).

- Relief negative emotions and stress.
 Forget worries and clear random thought
 Solitude and contemplation
 Other please specify

Q23. Do you think that **being and interacting with neighbours** in green infrastructure in Taiping as having beneficial effects to you?

- Yes No

Q24. If yes, what are the benefits of interaction with neighbours? (You may tick more than one choice).

- More bonding with them.
 Happier to be with them.
 More comfortable interacting with others
 More willing and not hesitate to participate in community activity
 Care more about them
 Other please specify.....

Q25. How much do you agree or disagree with the statements about green infrastructure in Taiping?

Green Spaces and Well-being of Residents	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Physical well-being					
a) Offer me place to exercise and be active (spot-exercising, jogging, walking, playing)	5	4	3	2	1
Cognitive well-being					
b) I can relief my emotion (e.g. forget worries, relief stress and clear random thoughts).	5	4	3	2	1
c) I can be comfortable, being relaxed and calm.	5	4	3	2	1
d) I can be alone and find privacy in green infrastructure.	5	4	3	2	1
e) I feel safe here.	5	4	3	2	1
f) I prefer the green infrastructure more than any other types of outdoor spaces.	5	4	3	2	1
g) I am satisfied with the green infrastructure because of their physical properties and attributes.	5	4	3	2	1
h) I am satisfied with the green infrastructure in Taiping	5	4	3	2	1
i) I care and concern about the green infrastructure.	5	4	3	2	1
j) The green infrastructure should be protected and conserve.	5	4	3	2	1
k) Green infrastructure offers suitable activity for residents.	5	4	3	2	1
Attachment to Green Infrastructure					
l) It is a meaningful place for me - evoke personal meanings and personal place memory such as childhood memory, pleasant time with loved ones.	5	4	3	2	1
m) Green infrastructure is my favourite place.	5	4	3	2	1
Social well-being	5	4	3	2	1
n) Green infrastructure allows more interaction with other residents.	5	4	3	2	1
o) Green infrastructure allows more interaction with neighbours.	5	4	3	2	1
p) Green infrastructure allows participation with other residents (gotong royong and meeting).	5	4	3	2	1
q) Social activity and interaction made satisfy with the community	5	4	3	2	1
r) Social activity and interaction made me feel friendlier with others.	5	4	3	2	1

Q26. How much do you agree or disagree that the following place affords **active living** such as **exercising (jogging, cycling, walking) and playing?**

Location	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
a) Lake Garden.	5	4	3	2	1
b) Hill forests (e.g. Bukit Larut, Burmese pool and Bukit D.O.).	5	4	3	2	1
c) Open space in town (e.g. Esplanade).	5	4	3	2	1
d) Streets and green infrastructure along shop houses (e.g. at Jalan Kota and Jalan Taming Sari).	5	4	3	2	1
e) Open spaces in your neighbourhood area and home gardens (e.g. playground and football field).	5	4	3	2	1

f) Pocket space of historical, institutional and government buildings (e.g. Clock Tower, Prison, Majlis Perbandaran Taiping, library, hospital, school).	5	4	3	2	1
g) Pocket space in town centre (e.g. at Laman Pasar).	5	4	3	2	1
h) Green infrastructure along river	5	4	3	2	1

Q27. How much do you agree or disagree that the following place **affords relief from stress**?

Location	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
a) Lake Garden.	5	4	3	2	1
b) Taiping Zoo.	5	4	3	2	1
c) Hill forests (e.g. at Bukit Larut, Burmese Pool and Bukit D.O.).	5	4	3	2	1
d) Open space in town (e.g. Esplanade).	5	4	3	2	1
e) Streets and green spaces along shop houses e.g. at Jalan Kota and Jalan Taming Sari).	5	4	3	2	1
f) Green infrastructure in your residential area and home gardens (e.g. playground and football field).	5	4	3	2	1
g) Pocket space of historical, institutional and government buildings (e.g. Clock Tower, Prison, Majlis Perbandaran Taiping, library, hospital, school).	5	4	3	2	1
h) Pocket space in town centre (e.g. at Laman Pasar).	5	4	3	2	1
i) Green infrastructure along river (e.g. Rantin river).	5	4	3	2	1

Q28. Pick a number from a scale of 5 (positive scale) to 1 (negative scale) to describe **your feeling towards the properties and attributes of the green infrastructure in Taiping**. If the words are not appropriate for your assessment, write your own words in other, specify

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	
Exciting	5	4	3	2	1	Boring
Calm/Serene	5	4	3	2	1	Chaos
Spacious	5	4	3	2	1	Crowded
Beautiful	5	4	3	1	1	Ugly
Variety	5	4	3	2	1	Monotony
Inspiring	5	4	3	2	1	Unimaginative
Lively	5	4	3	2	1	Abandon/deserted/ empty
Clean	5	4	3	2	1	Dirty
Comfortable	5	4	3	2	1	Uncomfortable
Safe and secure	5	4	3	2	1	Fear and anxiety

Other(s), please specify

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Q29. Do you have favourite places?

Yes

No

If yes, please answer Q15-16. If no, please go to Q17

Q30. Where is the place?

Q31. Why it is your favourite? (You can choose more than one answer).

- Place to relax, be alone and relief stress.
- Place to do physical activity e.g. exercising and playing.
- Place to interact with friends and family.
- Place to interact with other residents.
- It is safe and secure.
- Other please specify

Q32. How do you feel when you are in **THE LAKE GARDENS**? From each row, pick a number from a scale from a scale 5(positive scale) to 1(negative scale).

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	
Fond of it	5	4	3	2	1	Dislike it
Exciting	5	4	3	2	1	Boring
Calm/Serene	5	4	3	2	1	Chaos
Spacious	5	4	3	2	1	Crowded
Inspiring	5	4	3	2	1	Unimaginative
Familiar	5	4	3	2	1	Strange
Lively	5	4	3	2	1	Abandon/deserted/ empty
Clean	5	4	3	2	1	Dirty
Good facility	5	4	3	2	1	With vandalism/graffiti
Comfortable	5	4	3	2	1	Uncomfortable
Beautiful						Ugly
Safe and secure	5	4	3	2	1	Fear and anxiety

Q33. How do you feel when you are in the **GREEN INFRASTRUCTURE AT THE HILL FORESTS**?

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	
Fond of it	5	4	3	2	1	Dislike it
Exciting	5	4	3	2	1	Boring
Calm/Serene	5	4	3	2	1	Chaos
Spacious	5	4	3	2	1	Crowded
Inspiring	5	4	3	2	1	Unimaginative
Familiar	5	4	3	2	1	Strange
Lively	5	4	3	2	1	Abandon/deserted/ empty
Clean	5	4	3	2	1	Dirty
Good facility	5	4	3	2	1	With vandalism/graffiti
Comfortable	5	4	3	2	1	Uncomfortable
Beautiful						Ugly
Safe and secure	5	4	3	2	1	Fear and anxiety

Q34. How do you feel when you are in **POCKET SPACES in town centre such as Laman Pasar, at Pangung Wawang road and SPACES IN BETWEEN BUILDINGS?**

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	
Fond of it	5	4	3	2	1	Dislike it
Exciting	5	4	3	2	1	Boring
Calm/Serene	5	4	3	2	1	Chaos
Spacious	5	4	3	2	1	Crowded
Inspiring	5	4	3	2	1	Unimaginative
Familiar	5	4	3	2	1	Strange
Lively	5	4	3	2	1	Abandon/deserted/ empty
Clean	5	4	3	2	1	Dirty
Good facility	5	4	3	2	1	With vandalism/graffiti
Comfortable	5	4	3	2	1	Uncomfortable
Beautiful						Ugly
Safe and secure	5	4	3	2	1	Fear and anxiety

Q35. How do you feel when you are **NEIGHBOURHOOD GREEN SPACES AND HOME GARDENS IN YOUR PLACE?**

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	
Fond of it	5	4	3	2	1	Dislike it
Exciting	5	4	3	2	1	Boring
Calm/Serene	5	4	3	2	1	Chaos
Spacious	5	4	3	2	1	Crowded
Inspiring	5	4	3	2	1	Unimaginative
Familiar	5	4	3	2	1	Strange
Lively	5	4	3	2	1	Abandon/deserted/ empty
Clean	5	4	3	2	1	Dirty
Good facility	5	4	3	2	1	With vandalism/graffiti
Comfortable	5	4	3	2	1	Uncomfortable
Beautiful						Ugly
Safe and secure	5	4	3	2	1	Fear and anxiety

Q36. How much do you agree or disagree that the following place **affords progressive social interaction with residents and neighbour?**

Location	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
a) Lake Garden.	5	4	3	2	1
b) Taiping Zoo.	5	4	3	2	1
c) Hill features (e.g. at Bukit Larut, Burmese Pool and Bukit D.O.).	5	4	3	2	1
d) Open space in town (e.g. Esplanade).	5	4	3	2	1
e) Streets and green spaces along shop houses (e.g. at Jalan Kota and Jalan Taming Sari).	5	4	3	2	1
f) Open spaces in your residential area and home gardens (e.g. playground and football field).	5	4	3	2	1
g) Pocket space of historical, institutional and government buildings (e.g. Clock					

Tower, Prison, Majlis Perbandaran Taiping, library, hospital, school).	5	4	3	2	1
h) Pocket space in town centre (e.g. at Laman Pasar).	5	4	3	2	1
i) Green spaces along river (e.g. Rantin river).	5	4	3	2	1

Q37. What types of activities you do with neighbours? (You can choose more than one answer).

- 'Kenduri'
- Relaxing and chatting with them
- Playing and exercising with them

Other please specify.....

Q38. Tick (✓) the community's activity ever been organised in green areas that you have participated or involved (you may tick more than one choice).

- Special events in town.
- Annual event organized by town council.
- Environmental program, e.g. cleaning of green areas.
- Activity at residential area.....
- 'Gotong-royong'.....

Other please specify.....

END OF QUESTIONS

Thank you for your assistance!