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APPENDIX A:

Adapted Appraisal Tool For Qualitative and Quantitative Studies

Review Area	Key Question	Yes/ No
1. STUDY OVERVIEW		
Details	Author, title, source, year	
Purpose	Aim/s of study mentioned?	
Key findings	Are key findings mentioned?	
Evaluative summary	Are strengths and weaknesses of study mentioned?	
2. STUDY, SETTING, SAMPLE AND ETHICS		
Type of study	Type of study mentioned?	
Study setting	Setting mentioned?	
Sample	Sample and population specified?	
	Is the sample appropriate for the study aim/s?	
3. ETHICS		
	Was ethics committee approval obtained?	
	Was informed consent obtained?	
	Have ethics issues been appropriately addressed?	
4. DATA COLLECTION		
Appropriateness of data collection method	Was data collection method appropriate for study aim/s?	
Data collection process	Is data collection process adequately described (range of questions, length of interview or administration of questionnaire)?	
Reflexivity/ validity	Is reflexivity/ validity discussed/ addressed?	
5. DATA ANALYSIS		
	Data analysis mentioned and adequately described?	
	Data analysis technique is appropriate for study aim/s?	
	Is adequate evidence provided to support results/findings? (raw data, iterative analysis)	
6. POLICY AND PRACTICE IMPLICATIONS		
	Findings interpreted within context of other studies and theory?	
	Are conclusions justified given context of study?	
	Are implications for policy and practice discussed?	
	Are recommendations given for future research/ intervention?	
DECISION (INCLUDE/EXCLUDE)		

Source: Long et al. (2002; 2004)

APPENDIX B:

Data Extraction Table Template

Author	Focus of research	Age cohort	Sample composition	Area/ context	Method	Framework



APPENDIX C:

Instruments

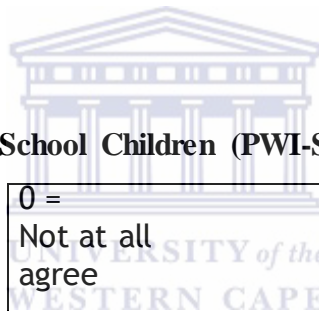
NEP Scale (Manoli et al., 2007)

Please tell us how much you agree or disagree with the following sentences	Very much agree	Agree	Not sure	Dis-agree	Very much disagree
▪ Plants and animals have as much right as people to live.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ There are too many (or almost too many) people on earth.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ * People are clever enough to keep from ruining the earth.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ People must still obey the laws of nature.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ When people mess with nature it has bad results.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ * Nature is strong enough to handle the bad effects of the way we live.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ * People are supposed to rule over the rest of nature.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ People are treating nature badly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ *People will someday know enough about how nature works to be able to control it.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ If things don't change, we will have a big disaster in the environment soon.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Reverse coded items

Students' Life Satisfaction Scale (SLSS) (Huebner, 1991)

30. Please tell us how much you agree or disagree with each of the following sentences	Very much disagree	Disagree	Neither disagree nor agree	Agree	Very much agree
▪ My life is going well	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ My life is just right	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ I would like to change many things in my life	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ I wish I had a different kind of life	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ I have a good life	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ I have what I want in life	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ My life is better than most young people my age	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Personal Well-Being Index-School Children (PWI-SC) (Cummins & Lau, 2005)

How satisfied are you with each of the following things in your life?	0 = Not at all agree											10 = Very much Agree										
	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
▪ All the things you have?	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
▪ Your health?	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
▪ The things you want to be good at?	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
▪ Your relationships with people in general?	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
▪ How safe you feel?	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
▪ Doing things away from your home?	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
▪ What may happen to you later in your life?	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
▪ How you use your time?	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
▪ Your life as a student?	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10

APPENDIX D:

Information Sheet: Learner/Child



UNIVERSITY OF THE WESTERN CAPE

Private Bag X 17, Bellville 7535, South Africa

Tel: +27 21-959 2283, Fax: 27 21-959 3515

E-mail: ssavahl@uwc.ac.za

INFORMATION SHEET

Learner/ Child

Project title: Nature as children's space: Considerations for children's subjective well-being

What is this study about?

This is a research project being conducted by Sabirah Adams, a PhD Candidate in the Department of Psychology at the University of the Western Cape. The study is entitled '*Nature as children's space: Considerations for children's subjective well-being*'

What will I be asked to do if I agree to participate in the study?

If you agree to participate, you will be asked to participate in two focus groups, one walking interview and one Photovoice sessions. In the focus groups you will be asked questions about the natural spaces you engage in. The focus groups will be approximately one hour long. In the walking interview you will be asked to take the researcher through a walk of the natural spaces which you make use of in your neighbourhood. Finally, the Photovoice sessions will be conducted within the walking interview and you will be given a camera and asked to capture images which best convey these natural spaces you have indicated.

What is Photovoice and will I be entitled to do?

Photovoice is a method in which photography is used to identify, express, and share your experiences. In participating in the Photovoice mission session you will be trained to utilise a camera and given directives about what to capture in your photographs. You will then be given a disposable camera to utilise for your Photovoice mission.

How many sessions, and how long will the Photovoice mission session be?

You will be asked to participate in one Photovoice mission session. You will carry out your Photovoice mission session by going into your community and taking photographs of natural spaces in which you engage and spaces which you feel can be utilised better to make your community more child friendly.

What will the photographs be used for?

The photographs from the Photovoice mission sessions will be used for a research project exploring young people's understandings of natural spaces. The photographs will also be used for conference presentations and published manuscripts.

Where will we get cameras to use for the Photovoice mission session?

You will be provided with disposable cameras by the study co-ordinator.

Are there any risks associated with the Photovoice mission session?

There are no known risks associated with participating in the Photovoice mission session. The research team will accompany participants on the Photovoice mission session. The researchers cannot be held liable for any physical injury which could occur in the process.

Would my participation in this study be kept confidential?

Your identity will remain confidential throughout the research process. Your name will not be used in the write-up of the study. Only the primary researchers will have access to the information collected which will be kept in a secure location. You may withdraw from the study at any time without negative consequence. The ethics principles as stipulated by the University of the Western Cape and the Western Cape Education Department and will be adhered to at all times.

What are the benefits of this research?

This research is not designed to help you personally, but the results may help the researcher learn more about children's understandings of natural spaces. This study aims to explore how children construct and assign meaning to natural spaces. Within this process this study aims to explore the extent to which children's engagement with natural spaces influences their subjective well-being. Additionally the study strategically aims to explore the implications of these constructions on creating child-friendly natural spaces.

What are the risks of this research?

There are no known risks associated with participating in this research project

Do I have to be in this research and may I stop participating at any time?

Your participation in this research is completely voluntary; therefore you can stop participating at any time. If you decide to withdraw from the study you will not be looked upon unfavourably.

Is any assistance available if I am negatively affected by participating in this study?

If the questionnaire or any part of this process results in any emotional discomfort, counselling will be arranged by the researcher without cost.

What if I have questions?

Should you have any further queries regarding this study or wish to report any problems you have experienced related to the study, please feel free to contact the study co-ordinator, **Sabirah Adams**, on **073 127 3376**. Should you have any questions regarding this study and your rights as a research participant or if you wish to report any problems you have experienced related to the study, please contact:

Head of Department: Dr. M. Andipatin (mandipatin@uwc.ac.za, 021 959 2283)

Dean of the Faculty of Community and Health Sciences: Prof. J. Frantz (jfrantz@uwc.ac.za, 021 959 2163)

University of the Western Cape
Private Bag X17
Bellville 7535

Information Sheet: Parent/Guardian



UNIVERSITY OF THE WESTERN CAPE

Private Bag X 17, Bellville 7535, South Africa

Tel: +27 21-959 2283, Fax: 27 21-959 3515

E-mail: ssavahl@uwc.ac.za

INFORMATION SHEET

Parent/Guardian

Project title: Nature as children's space: Considerations for children's subjective well-being

What is this study about?

This is a research project being conducted by Sabirah Adams, a PhD Candidate in the Department of Psychology at the University of the Western Cape. The study is entitled '*Nature as children's space: Considerations for children's subjective well-being*'

What will my I be asked to do if I agree to participate in the study?

If you agree to allow your child to participate, they will be asked to participate in two focus groups, one walking interview and one Photovoice sessions. In the focus groups you will be asked questions about the natural spaces you engage in. The focus groups will be approximately one hour long. In the walking interview you will be asked to take the researcher through a walk of the natural spaces which you make use of in your neighbourhood. Finally, the Photovoice sessions will be conducted within the walking interview and you will be given a camera and asked to capture images which best convey these natural spaces you have indicated.

What is Photovoice and will my child be entailed to do?

Photovoice is a method in which photography is used to identify, express, and share your experiences. In participating in the Photovoice mission session your child will be trained to utilise a camera and given directives about what to capture in their photographs. Your child will then be given a disposable camera to utilise for their Photovoice mission session.

How many, and how long, will the Photovoice mission session be?

You will be asked to participate in one Photovoice mission session. You will carry out your Photovoice mission session by going into your community and taking photographs of natural spaces in which you engage and spaces which you feel can be utilised better to make your community more child friendly.

What will the photographs be used for?

The photographs from the Photovoice mission sessions will be used for a research project exploring young people's understandings of natural spaces. The photographs will also be used for conference presentations and published manuscripts.

Where will my child a get camera from for the Photovoice mission session?

Your child will be provided with disposable cameras by the study co-ordinator.

Are there any risks associated with the Photovoice mission session?

There are no known risks associated with your child participating in the Photovoice mission session. The research team will accompany participants on the Photovoice mission session.

The researchers cannot be held liable for any physical injury which could occur in the process.

Would my child's participation in this study be kept confidential?

Your child's identity will remain confidential throughout the research process. Your child's name will not be used in the write-up of the study. Only the primary researchers will have access to the information collected which will be kept in a secure location. Your child may withdraw from the study at any time without negative consequence. The ethics principles as stipulated by the University of the Western Cape and the Western Cape Education Department will be adhered to at all times.

What are the benefits of this research?

This research is not designed to help your child personally, but the results may help the researcher learn more about children's understandings of natural spaces. This study aims to explore how children construct and assign meaning to natural spaces. Within this process this study aims to explore the extent to which children's engagement with natural spaces influences their subjective well-being. Additionally the study strategically aims to explore the implications of these constructions on creating child-friendly natural spaces.

What are the risks of this research?

There are no known risks associated with participating in this research project

Does my child have to be in this research and may they stop participating at any time?

Your child's participation in this research is completely voluntary; therefore they can stop participating at any time. If your child decides to withdraw from the study, they will not be looked upon unfavourably.

Is any assistance available if my child is negatively affected by participating in this study?

If the questionnaire or any part of this process results in any emotional discomfort for your child, counselling will be arranged by the researcher without cost.

What if I have questions?

Should you have any further queries regarding this study or wish to report any problems you have experienced related to the study, please feel free to contact the study co-ordinator, **Sabirah Adams**, on **073 127 3376**. Should you have any questions regarding this study and your rights as a research participant or if you wish to report any problems you have experienced related to the study, please contact:

Head of Department: Dr. M. Andipatin (mandipatin@uwc.ac.za, 021 959 2283)

Dean of the Faculty of Community and Health Sciences: Prof. J. Frantz (jfrantz@uwc.ac.za, 021 959 2163)

University of the Western Cape
Private Bag X17
Bellville 7535

APPENDIX E:

Consent Form: Learner/Child



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Tel: +27 21-959 2283, Fax: 27 21-959 3515

E-mail: ssavahl@uwc.ac.za

CONSENT FORM

Learner/Child

Project Title: Nature as children's space: Considerations for children's subjective well-being

The study has been described to me in language that I understand and I freely and voluntarily agree to participate. My questions about the study have been answered. I understand that my identity will not be disclosed and that I may withdraw from the study without giving a reason at any time and this will not negatively affect me in any way.

- I agree to participate in the focus group interviews, Photovoice mission session and discussion group, and the walking interview
- I agree to have the focus group interviews and Photovoice discussion group audio-recorded
- I agree to not disclose any information that was discussed during data collection.
- I agree to the findings of the study being disseminated (shared/ publicised) in the following formats: Conference presentations and Published manuscripts

Participant's signature _____

Witness _____

Date _____

Should you have any questions regarding this study or wish to report any problems you have experienced related to the study, please contact the study coordinator:

Study Coordinator: Sabirah Adams
University of the Western Cape
Private Bag X17, Belville 7535
Telephone: (021) 959-2283

Consent Form: Parent/Guardian



UNIVERSITY OF THE WESTERN CAPE

Private Bag X 17, Bellville 7535, South Africa

Tel: +27 21-959 2283, Fax: 27 21-959 3515

E-mail: ssavahl@uwc.ac.za

**CONSENT FORM
Parent/Guardian**

Project Title: Nature as children's space: Considerations for children's subjective well-being

The study has been described to me in language that I understand and I freely and voluntarily agree for my child to participate. My questions about the study have been answered. I understand that my child's identity will not be disclosed and that they may withdraw from the study without giving a reason at any time, and this will not negatively affect me in any way.

- I agree to the focus group interviews and Photovoice discussion group in which my child participates to be audio-recorded
- I agree to the findings of the study being disseminated (shared/ published) in the following formats: Conference presentation and Published manuscripts.

Parent/Guardians signature _____

Witness _____

Date _____

Should you have any questions regarding this study or wish to report any problems you have experienced related to the study, please contact the study coordinator:

Study Coordinator: Sabirah Adams
University of the Western Cape
Private Bag X17, Belville 7535
Telephone: (021) 959-2283

APPENDIX F:

Focus Group Confidentiality Binding Form



UNIVERSITY OF THE WESTERN CAPE

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Tel: +27 21-959 2283, Fax: 27 21-959 3515

E-mail: ssavahl@uwc.ac.za

FOCUS GROUP CONFIDENTIALITY BINDING FORM

Title of Research Project: Nature as children's space: Considerations for children's subjective well-being

The study has been described to me in a language that I understand and I freely and voluntarily agree to participate. My questions about the study have been answered. I understand that my identity will not be disclosed and that I may withdraw from the study without giving a reason at any time and this will not negatively affect me in any way. I agree to be audio-taped during my participation in the study. I also agree not to disclose any information that was discussed during the group discussion.

Participant's signature _____

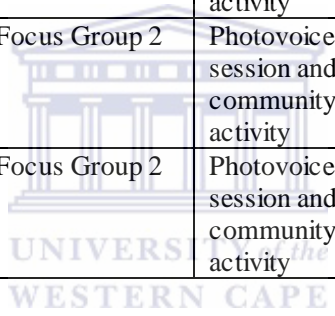
Witness's signature _____

Date _____

APPENDIX G:

Phase Two data collection protocol

	Session 2	Session 3	Session 4	Session 6
Group 1	Focus Group 1	Focus Group 2	Photovoice training session and community mapping activity	Photovoice discussion session and dissolution
Group 2	Focus Group 1	Focus Group 2	Photovoice training session and community mapping activity	Photovoice discussion session and dissolution
Group 3	Focus Group 1	Focus Group 2	Photovoice training session and community mapping activity	Photovoice discussion session and dissolution
Group 4	Focus Group 1	Focus Group 2	Photovoice training session and community mapping activity	Photovoice discussion session and dissolution
Group 5	Focus Group 1	Focus Group 2	Photovoice training session and community mapping activity	Photovoice discussion session and dissolution
Group 6	Focus Group 1	Focus Group 2	Photovoice training session and community mapping activity	Photovoice discussion session and dissolution



APPENDIX H:

Acknowledgment and Release: Photovoice Consent form

Research Project: Nature as children's space: Considerations for children's subjective well-being

Permission to utilise images:

I, _____ give Sabirah Adams and Shazly Savahl, the study co-ordinators for the research project entitled *Nature as children's space: Considerations for children's subjective well-being*, the right to utilise the photographs/ images I have taken for their research project.

I have read and understood the above.

Signature of person in photograph _____

Signature of photographer _____



Date _____

APPENDIX I:

Photograph release: Photovoice Consent Form

I, _____ (Photographer's name) give Sabirah Adams and Shazly Savahl, the study co-ordinators for *Nature as children's space: Considerations for children's subjective well-being*, the right to utilise photographs/ images, which I have taken during data collection for their research project, in the write-up of the study, as well as in linked conference presentations and published manuscripts.

Photographer/ participant's signature _____

Date _____



APPENDIX J:

UWC Research Ethics clearance

DEPARTMENT OF RESEARCH DEVELOPMENT



UNIVERSITY of the
WESTERN CAPE

09 March 2016

To Whom It May Concern

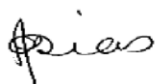
I hereby certify that the Senate Research Committee of the University of the Western Cape, at its meeting held on 29 November 2013 approved the methodology and ethics of the following research project by: Ms S Adams (Psychology)

Research Project: Nature as children's space: Making sense of natural spaces and implications for creating child friendly natural spaces

Registration no: 13/10/28

Any amendments, extension or other modifications to the protocol must be submitted to the Ethics Committee for approval.

The Committee must be informed of any serious adverse event and/or termination of the study.



*Ms Patricia Josias
Research Ethics Committee Officer*

University of the Western Cape

Private Bag X17, Bellville 7535, South Africa
T: +27 21 959 2988/2948 . F: +27 21 959 3170
E: pjosias@uwc.ac.za
www.uwc.ac.za

APPENDIX K:

Western Cape Education Department Ethics Clearance letter



Directorate: Research

Audrey.wyngaard@westerncape.gov.za

tel: +27 021 467 9272

Fax: 0865902282

Private Bag x9114, Cape Town, 8000

wced.wcape.gov.za

REFERENCE: 20140903-35867

ENQUIRIES: Dr A T Wyngaard

Ms Sabirah Adams
Robert Sobukwe Road
Bellville

Dear Ms Sabirah Adams

RESEARCH PROPOSAL: NATURE AS CHILDREN'S SPACE: MAKING SENSE OF NATURAL SPACES AND IMPLICATIONS OF CREATING CHILD FRIENDLY NATURAL SPACES

Your application to conduct the above-mentioned research in schools in the Western Cape has been approved subject to the following conditions:

1. Principals, educators and learners are under no obligation to assist you in your investigation.
2. Principals, educators, learners and schools should not be identifiable in any way from the results of the investigation.
3. You make all the arrangements concerning your investigation.
4. Educators' programmes are not to be interrupted.
5. The Study is to be conducted from **01 September 2014 till 30 September 2014**
6. No research can be conducted during the fourth term as schools are preparing and finalizing syllabi for examinations (October to December).
7. Should you wish to extend the period of your survey, please contact Dr A.T Wyngaard at the contact numbers above quoting the reference number?
8. A photocopy of this letter is submitted to the principal where the intended research is to be conducted.
9. Your research will be limited to the list of schools as forwarded to the Western Cape Education Department.
10. A brief summary of the content, findings and recommendations is provided to the Director: Research Services.
11. The Department receives a copy of the completed report/dissertation/thesis addressed to:

**The Director: Research Services
Western Cape Education Department
Private Bag X9114
CAPE TOWN
8000**

We wish you success in your research.

Kind regards.

Signed: Dr Audrey T Wyngaard

Directorate: Research

DATE: 04 September 2014