

Brownhill Creek Environmental Action Day - Friday Week 1 Term 4 - 21st October 2016

Participation Summary Table

School	Year Levels	Total Number of Students	Contact Teachers
Urrbrae Ag. High School	8 – 11 (presenting wkshops)	24	Ann-Louise Breeding – 0457 722 997 Garth Burroughs
Scotch College	6 (2 classes)	50	David Pace
Mercedes College	4	56	Melissa Buske
Mitcham Primary School	5/6	60	Mike Fidge Tash Forbes

Proposed Timeline - 20 minute workshops with 10 minute change over

Numbers 1 – 12 relate to the workshop number Letters A – L relate to student grouping

Time	Activity	Notes											
9:30am – 9:40am	Arrival	Under the big Oak near the Tennis courts Students to split into 12 groups – students then sit with their group.											
9:40am – 9:50am	Welcome to country												
9:50am – 10:05am	Key note speaker	Chris Daniels – community and citizen science , engaging with nature											
10:05am – 10:30am	Kaurna Cultural Heritage	Frank Wanganeen											
10:30am – 11:00am	Session 1	1	2	3	4	5	6	7	8	9	10	11	12
		A	B	C	D	E	F	G	H	I	J	K	L
11:00am – 11:30am	Recess	BYO – nude food - compost bin available Need to take all rubbish home											
11:30am – 12:00pm	Session 2	1	2	3	4	5	6	7	8	9	10	11	12
		L	A	B	C	D	E	F	G	H	I	J	K
12:00pm -12:30pm	Session 3	1	2	3	4	5	6	7	8	9	10	11	12
		K	L	A	B	C	D	E	F	G	H	I	J
12:30pm – 1:00pm	Session 4	1	2	3	4	5	6	7	8	9	10	11	12
		J	K	L	A	B	C	D	E	F	G	H	I

1:00pm – 1:30pm	Lunch	BYO – nude food - compost bin available Need to take all rubbish home											
1:30pm – 2:00pm	Session 5	1	2	3	4	5	6	7	8	9	10	11	12
		I	J	K	L	A	B	C	D	E	F	G	H
2:00pm – 2:30pm	Session 6	1	2	3	4	5	6	7	8	9	10	11	12
		H	I	J	K	L	A	B	C	D	E	F	G
2:30pm – 2:45pm	Conclusion session	Meet back at arrival site Conclusion by Jeremy Gramp											

Student Groups – students will have a letter and corresponding plant/animal on their name tags

- | | |
|----------------------------|-----------------------|
| A. Australian Painted Lady | G. Golden Wattle |
| B. Brushtail Possum | H. Huntsman Spider |
| C. Common Froglet | I. Inch Ant |
| D. Dragonfly | J. Jelly Baby Fungi |
| E. Eastern Spinebill | K. Koala |
| F. Freshwater Shrimp | L. Lavender Grevillea |

Activity Stations (students will participate in 6 out of the 12 available)

1. Water testing – UAHS – During this workshop students will learn how to assess the water quality by testing the turbidity, salinity, pH, dissolved oxygen, temperature, and nitrate and phosphate levels, then accurately record and analyse their results.

2. Soil pH – UAHS – pH testing soils is a procedure which demonstrates the alkalinity or acidity levels of soil. In this workshop students will learn how to test for pH and analyse the results as well as the importance of monitoring soil pH. They will then have a chance to test their own soil sample and learn about what sort of environments contain that classification of soil along with what native plants would be suited to the soil type. They will also be given the opportunity to compare soil types from different locations in the area and discuss why they may nor may not have different results.

3. Frogs – Steve Walker – Frogs are well known for their sensitivity to pollution and habitat degradation. In this session you'll be introduced to the frogs in the Brownhill Creek area and how you can become a Citizen Scientist by using the new FrogSpotter app to monitor their populations. The information provided through FrogWatch SA helps us understand how frogs in the creek are doing and how management practices are benefitting the local wildlife.

4. Photo-points – UAHS – Photo points are an easy way to monitor a site. When photos are continually taken in the same place they allow people to see the positive impacts their work has had and how the project site has changed over time (including seasonal variations, long term outcomes, sequencing). In this workshop students will learn why and how to set up a successful photo point.

5. Aquatic Macroinvertebrates – UAHS – Like frogs aquatic macroinvertebrates are excellent biological indicators and can be used to assess the health of the water. During this workshop students will learn how to collect, sample and accurately identify aquatic macroinvertebrates then using the SIGNAL score learn how to assess water quality.

6. Insects / reptiles – UAHS – Students will discover the fascinating world of both reptilian and invertebrate critters through hands on activities and animal displays. Students will be educated on which of the Brownhill Creek reptiles and invertebrates are dangerous and which are not and can be safely handled. They will discover the rich biodiversity of the Brownhill Creek area through this workshop.

7. Biological drawing – UAHS – Biological drawing is a very important skill when studying life science, especially if the species is unknown. However biological drawings are different than artistic drawings in that they are not done from memory rather they must be completed while looking at the specimen. In this workshop students will learn how to make accurate biological drawings.

8. Bones – UAHS – Skeletons and specifically skulls can be used to identify species that may be living in the area as native animals have distinct skulls shapes. This workshop will discuss some of the differences between native and introduced species and students will learn how to collect, clean and store bones.

9. Cultural heritage – Ron Bellchambers – Students will learn about the rich heritage of the Brownhill Creek area including both Indigenous and European perspectives.

10. Plants – Wayne Myers – The revegetation of the Brownhill Creek area is a primary outcome of the project. Students will learn the importance of native plants in the ecosystem, how to identify the difference between native and exotic species, and the importance of having plants at the upper story, middle story and under story levels, as well as ground covers.

11. Birds – UAHS – Learn about the rich diversity of bird life that lives in the Brownhill Creek area. Equipped with binoculars, ID charts and bird books students will learn how to monitor birds and accurately spot and identify different species.

12. Butterflies and Moths – Jeremy Gramp – During this workshop students will learn about the significance of butterflies and moths within a healthy ecosystem and the role that specific plants play in the lifecycles of these invertebrates. Students will learn how to ethically search for and identify local species.