APPENDIX 3

Example phenotype report for genetically modified animals

The main purpose of this report is to assist with the monitoring and assessment of the impact of the genetic modification upon the health and welfare of the affected animals. Please provide information consistent with this purpose (ie. detailed descriptions of *in vitro* methodology are not desired). It is a tool to make it easier for an AEC to appreciate the welfare impact of the genetic modification made to this strain of mouse.

Please use lay language or provide glossary definitions.

Project Details

1. AEC Project No.:			
2. Project Title:			
3. Start Date*:		**Finish Date*:**	
4. Chief Investigator:			
Department:			

* Relates to approved project dates.

Animal Details

5. Genetically modified animal species:			
Strain/genetic description:		**Background Strain:**	
Source: (ie. in-house or specified external laboratory source)			
What is the health profile of the source colony? Provide the most recent serology report			

DECLARATION BY CHAIRPERSON OF AEC

I certify that this report has been considered and accepted by the Animal Ethics Committee at the meeting on .....(date)

....

Chairperson's signature AEC Date

..... Please print name

6. How much is known about the biological characteristics/phenotype of this strain?

Indicate by selecting one of the following:

- ☐ Well characterised
- ☐ Partially-characterised/some information available
- ☐ Unknown

GLOSSARY

Word	Lay explanation

7. Genetic alteration:

Briefly describe which gene has been added /deleted/ altered	
Affected organs/tissues: (eg. gene expressed in liver only)	
Is animal health, welfare, breeding or lifespan affected?	
What abnormalities are known to exist (or do you expect) in these animals?	

8. Clinical Observations

Comparison of genetically modified animals with non-genetically modified littermates is desirable.

- Supply a record of clinical observations made on a representative sample of the genetically modified animal(s).
- Minimum period for observation record is 3 months; life-long data to be included where possible. If supplying "average" data, indicate number of animals observed and a measure of the variability of the data.

9. Phenotype

Briefly detail observations which have been made to characterise the genetically modified animal strain (ie behaviour, physiology, reproductive or developmental measures). Your answer to this question should inform the AEC about abnormalities or changes which have a welfare impact.

10. Minimisation of pain or distress

Describe any adverse affects, pain or distress, and/or unexpected mortality, the causes if known and how these problems were resolved. If none this should be indicated.

11. Special husbandry or animal care requirements specific for the new genetically modified animal strain

If these are necessary, please provide details.

12. Humane euthanasia and experimental endpoint criteria

What objective criteria will be used to determine when an animal will be humanely killed or removed from an experimental study prematurely?

CERTIFICATION OF THE CHIEF INVESTIGATOR

- I understand the requirements of legislation and the *Australian code of practice for the care and use of animals for scientific purposes* (2004) governing the use of animals for research and teaching.
- I will continue to conduct the project in full compliance with the aforementioned requirements.

....

Signature of Chief Investigator Date

.....

Please Print Name