

SUSTAINABILITY ASSESSMENT

CONCERNING

**CONSTRUCTION OF AMERICAN BARN, HORSE WALKER, OUTDOOR ARENA,
STORAGE BARN AND ASSOCIATED WORKS**

AT

PLUMMERDEN HOUSE, PARK LANE, LINDFIELD, SUSSEX, RH16 2QS.

1/ ENERGY.

2/ WATER.

3/ DRAINAGE.

ENERGY:

The proposed American Barn will have solar panels installed to provide renewable energy for the running of the American Barn and the Horse Walker. Generally, such a barn has low use of energy during the day, lights are only used when dark and there is no item which runs on a continuous basis.

WATER:

Obviously, the horses will drink water on a daily basis. On average a horse drinks 30-50 litres per day depending on whether it is summer or winter.

Grey water will be used for the toilet and the washing machine. The washing machine will be chosen for its economic use of both water and electric.

Water will be harvested off the American Barn, Horse Walker and Storage Barn roofs, stored in tanks and then this will be used to water the outdoor arena when required.

DRAINAGE:

A drainage system will be designed to catch as much surface water as possible which will then be stored in a combination of tanks and holding pond. This will then be used to water the outdoor arena and an newly planted orchard on site.