

## 1. Construction/Earthworks

- Any pond sites should be chosen and developed mindful of safety, practicality and maintenance.
- When determining the slope of the batters be mindful of the soils you are working with. AEL can assist with specifying a suitable slope. Softer soil encourages the use of batters with gentler slopes. To encourage stability of softer soils AEL can install a Geotextile to add support.
- The base of the pond should have sufficient fall to encourage the flow of any water to a low point. This low point can provide a drainage point prior and post liner installation.
- Groundwater levels higher than the base of the pond must be avoided. If, on occasion, the ground water could rise above the base of the pond, then water drainage should be installed under the liner to prevent a rising water table placing pressure on the liner.
- The finish of the subgrade should be as smooth as practical to minimise pressure points and abrasion on the liner. The use of a Geotextile Layer may be required in some instances as a protectant. AEL can advise when needed.
- Check with your regional authority to ensure any specific consenting conditions are followed.



## 2. liner Installation

- Be mindful of weather conditions and be realistic with construction time lines. Prior to excavation discuss with AEL an installation timeframe which best suits your schedule.
- AEL require machinery assistance with the installation of the liner. This is best achieved with a minimum 12 Tonne excavator or telehandler and operator to be provided by the client.
- If you intend to install an agitator, AEL can install a protective HDPE pad underneath the agitator to reduce the likelihood of damage to the liner.
- To aid in drainage of the pond AEL can supply and install a sump within the low point of the pond to act as a drain point.



## 3. Pond Access and Safety

- Specify the installation of AEL High Visibility ladders into your pond. These ladders provide a safe entry and exit point.
- Fence the pond well to prevent entry by unauthorised people or animals
- Check with local and regional authorities regarding safe operating requirements for your pond.

