



Passive Acoustic Monitoring

for Marine Fauna

TECHNOLOGY AND APPLICATION

WorleyParsons uses a range of passive and active acoustic monitoring techniques that provide improved detection and protection of marine fauna, whilst reducing costs associated with labour and vessels and providing a safer working environment.

Passive Acoustic Monitoring (PAM) - PAM accurately and reliably locates and tracks marine fauna using a specialist hydrophone. The real advantage of Passive Acoustic Monitoring (PAM) is that unlike visual observations, PAM can operate 24 hours-per-day and in more extreme conditions.

This allows operations (such as pile driving) to be conducted 24 hours a day with PAM monitoring covering night time and low visibility periods, when visual observations will not suffice.

WorleyParsons have introduced a further advance in the functionality of PAM by using a telemetered system. This method provides data in real-time, 24 hours a day on a secure website. If there is a breach within a specified exclusion zone, the operator will be alerted immediately via SMS.

RESULTS

Marine fauna can be tracked, identified and located well in advance of a breach with specific species tracking software so that operators have sufficient time to plan for a likely breach, as well as a long-term permanent record of sound.

All this information is available real-time on a secure website. This minimises costs associated with labour and vessels and provides a safer working environment, whilst still offering state-of-the-art protection to marine fauna.

DIVERLESS SOLUTIONS

Proud recipients of:

- 2012 - Consult Australia Award Winner for Technological Innovation
- 2012 - Finalist IFAP Safety Innovation
- 2011 - Golden Gecko Environmental Excellence Award Winner
- 2011 - APPEA Safety Innovation Award - Overall Winner
- 2011 - APPEA Safety Innovation Award - Industry Choice Winner



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