

## MARINE TURTLE EXPERT PANEL

### SUMMARY OF WORKSHOP #1

- Date:** 10th March 2009, 8.30am to 1.00pm
- Location:** QV1 Building, Level 18 – Conference Room 18:20
- Subject:** Gorgon Marine Turtle Expert Panel (MTEP) – Workshop #1
- Attendees:** All panel members other than those for whom apologies are noted. Dr Milani Chaloupka, Mr Jeremy Fitzpatrick from RPS and Mrs Daniela Ratcheva from Chevron attended as guests.
- Apologies:** Dr Julia Martin
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The Chair expressed the view that the material presented during the workshop would build on what the Panel had seen during their tour of Barrow Island and provide further understanding of the environmental factors and work undertaken by Chevron.

#### Summary of Barrow Island Turtle Studies

Dr Pendoley provided a summary of the extent and nature of the marine turtle studies undertaken on or associated with her work on Barrow Island. The presentation highlighted the six main programmes undertaken, which involve tagging, tracking, hatchling orientation, hatchling emergence and success, satellite tracking, and light behavioural studies.

#### Achieving Statistical Power of 0.8

Dr Chaloupka provided a presentation on assessing marine turtle abundance trends, and discussed the duration of sampling and data required to achieve the statistical power of 0.8, as required by the Ministerial approval conditions. The benefits of applying a combination of demographic studies through a capture-mark-recapture approach, rather than just abundance trends used in isolation, and how this affects time required to achieve a statistical power of 0.8 trend was discussed.

#### Mapping of Marine Benthic Habitats

Dr Fitzpatrick presented an overview of the comprehensive marine habitat mapping survey work conducted on the east coast of Barrow Island, and along pipeline routes. These studies have been undertaken over the past 5 or more years and have progressively expanded and refined the extent of habitat mapping in the region. The various methods of data collection and verification were explained and results discussed.

#### Chevron Risk Matrix and Hazard Analysis

Mrs Ratcheva presented material explaining Chevron's highly structured approach to environmental risk management and how this fits within broader project planning. This covered the risk work undertaken for the development of the EIS / ERMP, PER and MIS 748 deliverables and other project internal HAZID risk assessments for design and construction purposes where applicable to marine turtles and their potential stressors. A brief explanation was also provided on the development and application of the environmental consequence interpretative guideline developed to assist in allocating the appropriate level of consequence to each risk item identified.

#### Light Management Strategy

Mrs Ratcheva provided a summary on the Project's Lighting Basis of Design (document) and light management strategy for permanent facilities and construction activities. This included an explanation of what the key facilities and lighting stressors would be present during the operating and construction phases of the project.

## Marine Turtle Expert Panel Members

The Gorgon Marine Turtle Expert Panel comprises the following Panel Members:

| <b>Panel Member's Role</b>           | <b>Panel Member</b> | <b>Panel Member's Alternate</b> |
|--------------------------------------|---------------------|---------------------------------|
| Independent Chairperson              | Mr Simon Woodley    |                                 |
| Independent Expert                   | Dr Mark Hamann      |                                 |
| Independent Expert                   | Dr Scott Whiting    |                                 |
| Independent Expert                   | Dr Col Limpus       |                                 |
| Agency Subject Matter Expert - DEWHA | Dr Kirstin Dobbs    |                                 |
| Agency Subject Matter Expert - DEC   | Mr Keith Morris     | Mr Kevin Crane                  |
| Proponent Representative             | Mr Russell Lagdon   | Dr Julia Martin                 |
| Proponent Representative             | Dr Dorian Moro      | Dr Stephanie Turner             |
| Proponent Representative             | Dr Kellie Pendoley  |                                 |