Supplementary Figure S1a. Level 1 objective (see Figure 2) for international obligations and its subsidiary Levels 2–4 objectives.

International (Ramsar) Obligations (1)

To fulfil Australia's international obligations to maintain the ecological character of the Malkumba-Coongie Lakes Ramsar Site

Indicator Species (2)

To identify the key indicator species and processes that track changes in ecological character of the Ramsar site

Aquatic Species' Indicators (3)

To develop aquatic species' indicators

- To determine key indicators (4)
- To develop Thresholds of Potential Concern (TPCs) (4)
- To determine resourcing, seek funding (4)

Terrestrial Species Indicators (3)

To develop terrestrial species' indicators

- To determine key indicators (4)
- To develop Thresholds of Potential Concern (TPCs) (4)
- To determine resourcing, seek funding (4)

Ecosystem Processes, Indicators (3)

To identify indicators for ecosystem processes

- To access different data sources (4)
- To track changes in flow (4)
- To track changes to inundation patterns (4)
- To develop TPCs and seek funding (4)

Enabling (monitoring) (3)

To develop effective monitoring

- To foster collaboration and engagement (4)
- To develop capacity for running TPClinked monitoring programs (4)
- To promote learning (4)

Data, Communication and Reporting (2)

To provide regular and transparent reporting that is publicly available on the ecological character of the Ramsar site to the international and policy makers

Reporting Support (3)

To providing relevant reporting

• To provide reports, published on website (4)

Data Sourcing (3)

To use available data sources

- To determine data sources (4)
- To identify data gaps (4)
- To carry on workshops, with key stakeholders (4)

Policy and Management (2)

To inform policy and management decisions to effect actions to redress detrimental changes in ecological character

Interlinking - Strategic Adaptive Management (SAM) (3)

To ensure that there are links through Strategic Adaptive Management (SAM)

- To develop policies linking to SAM (4)
- To ensure all management is linked to objectives in SAM (4)

Planning (2)

To complete a management plan for the Malkumba-Coongie Lakes Ramsar Site

Management Plan, Resources (3)

To ensure that there are sufficient resource for Strategic Adaptive Management planning

Management Plan, Responsibilities (3)

To ensure that there are clear responsibilities for management identified in the Strategic Adaptive Management Plan

Management Plan, Operationalisation (3)

To ensure that there actions can be operationalised with the Strategic Adaptive Management planning

Building SAM (3)

To continue to build the Strategic Adaptive Management Plan

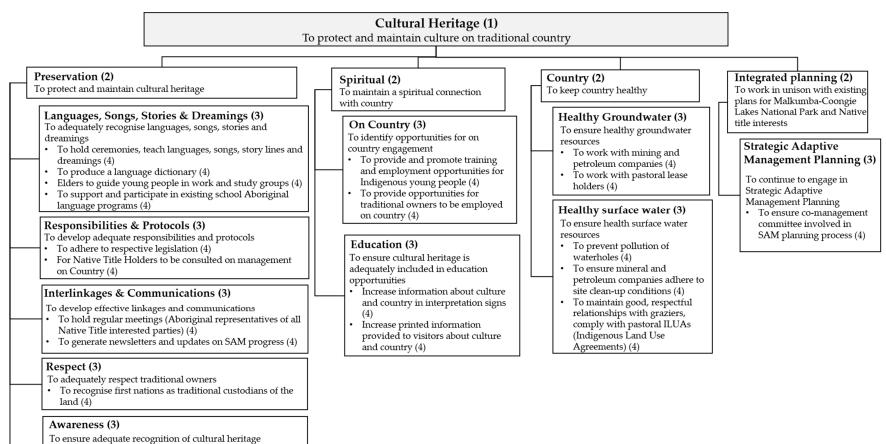
- To engage stakeholders (4)
- To develop SAM plan (4 main steps) (4)
- To implement SAM plan (4)
- To learn and adapt (4)

Supplementary Figure S1b. Level 1 objective (see Figure 2) for cultural heritage and its subsidiary Levels 2–4 objectives.

 Recognition at community events, such as NAIDOC (National Aborigines and Islanders Day Observance

Develop cultural 'attraction'/focal points for visitors, to raise awareness of indigenous history and values (4)

Committee) and races (4)

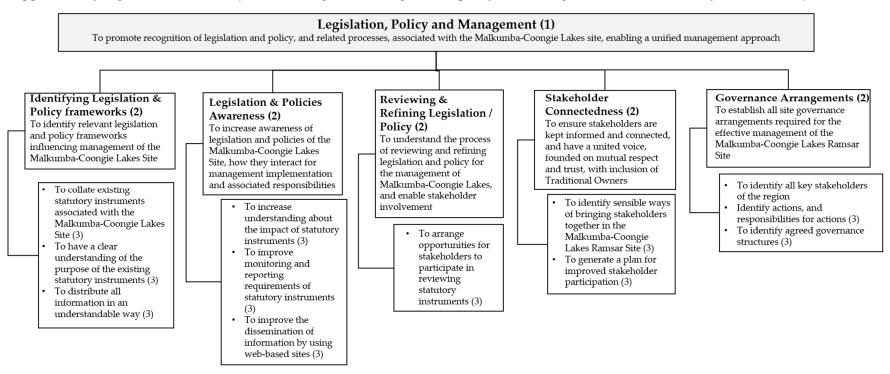


Supplementary Figure S1c. Level 1 objective (see Figure 2) for environmentally sustainable industries and its subsidiary Levels 2–4 objectives.

Environmentally Sustainable Industries (1) To support economically viable industries Communities (2) Legislation & Capacity (2) Information (2) To support the maintenance of vibrant To encourage and increase the capacity to To ensure information dissemination communities in the Malkumba-Coongie improve legislation and practice which is Lakes Ramsar Site outcome based To increase engagement with tourism organisations to minimise risk or creeping impacts, and understand Engagement (3) Improving legislation (3) regulation requirements for tourism (which exists for To develop effective engagement To improve legislative instruments other industries but not tourism) (3) To develop communications and · To review legislation to prevent To create regulations for the tourism industry (3) messaging around successful environmental damage to Ramsar wetland To elevate tourism concerns, through Landscape management of all industries (4) Boards and industry websites, social media (3) To assist local Progress Association To review practices in the Petroleum To encourage Fisheries to have a presence at a with organisation and delivery (4) industry (4) minimum of once/year to support Parks with enforcement (3) Social licence (3) Protocols & Regulations (3) To encourage ownership of risk through individual To identify relevance of different Protocols tour operators - sole tourist operators and individuals To examine social licence of different seeking out of ordinary experience (3) industries and Regulations To create publicly consumable document of Strategic • To review the Pastoral Land Management Adaptive Management Plan (3) and Conservation Act 1989, in part to Local agreements (3) To research what are the requirements for increased assess seasonal conditions relative to To shift dialogue from a reactive to a protraffic, no longer remote area (3) stocking numbers (4) active form with local agreement To form stakeholder group to develop a To review Planning, Development and Infrastructure Act 2016 - placement of communication plan (3) To monitor threats associated with bituminised road dams - South Australian Water Infrastructure and employment (3) link and increased traffic (e.g., stock damage, no pull Allocation Plans (WAPs) (4) To improve infrastructure on country to To different legislation and their off sites for road trains) (3) benefit Traditional Owners (e.g. Santos regulations to ensure the rules are compatible/complimentary (4) relationship) To review part of the *Native Vegetation* Act 1991 in relation to clearance by grazing (4) Monitoring (3) To ensure relevant monitoring To streamline approval processes (4) To ensure all stakeholders have

appropriate licenses for tours (4)

Supplementary Figure S1d. Level 1 objective (see Figure 2) for legislation, policy and management and its subsidiary Levels 2–4 objectives.



Supplementary Figure S1e. Level 1 objective (see Figure 2) for social and its subsidiary Levels 2–4 objectives.

