

2.2 Business arising from previous meeting 146: August 2018

143/5.1 Resilient Hills and Coasts update

To present the results of the current LIDAR mapping of the north-east end of KI to the Board on completion.

In hand: Anna Osman will present on the Coastal Hazard Mapping project at the November Board meeting.

143/6.3 Project reports — March to May 2018

To identify the location of projects funded through the on-ground works incentive grant scheme as part of *Catchment to Coast* project and report these back to the Board.

In hand: The Board will receive a full report on the *Catchment to Coast* project at the November Board meeting.

143/6.4 Board members reports — Bushfire Management Committee — future issues

To prepare questions/advice for D Welford to raise at the Bushfire Management Committee before the next fire season.

In hand: The Presiding Member requested that a formal letter go to the Bushfire Management Committee from the NRM Board listing any questions or seeking advice regarding the forthcoming fire season. D Welford, the Board's representative on the committee, will discuss this letter at the BMC meeting on behalf of the board.

145/2.2.1 Sustainability Indicators for Kangaroo Island

Due to uncertainty around the Commissioner for Kangaroo Island position and how her duties will be managed after September 2018, the Board proposed discussing the Sustainability Indicators project with the Regional Development Association-Adelaide Hills and Coast. The Board noted that the majority of the Commissioner's work will be continued by a relevant agency.

In hand: A paper will be presented on future custodian of the Sustainability Indicators for Kangaroo Island at November Board meeting.

145/4.4 Finance Report

Executive Officer develop a framework for a Financial Governance workshop to be held prior to December 2018.

In hand: Discussion regarding the framework will be held at the December Board meeting.

145/4.9 Nature Foundation SA Collaboration and Next Steps

The board asked that the Executive Officer:

1. develop a draft proposal for the October board meeting about how a 'KI Fund for Nature' could be established in partnership with the NRM Board and Nature Foundation South Australia; and
2. identify opportunities for delivery towards the objectives and strategies of the Kangaroo Island Strategic NRM Plan 2017-2027 in partnership with Nature Foundation South Australia.

In hand: Planning has commenced.

145/6.7 Koala Management

Writes to Minister Speirs expressing concern around lack of funding to manage the Kangaroo Island koala population, and recognise the social constraints but are desperately concerned that numbers continue to rise and serious vegetation damage occurs with potential for greater damage increase as the population of koalas remains uncontrolled.

Completed: A letter has been sent.

L Dohle reported the Hon. Tim Whetstone, Minister for Primary Industries and Regional Development recently visited Kangaroo Island and expressed his concerns about the impact of koalas on primary industries, in particular forestry, on the island. The close working relationship between the Hon. David Speirs and the Hon. Tim Whetstone, will be further supported if Board correspondence relating to koala management on KI is forwarded to both Ministers.

Motion 2.2

Moved D Welford

Seconded C Wickham

That correspondence from the KI NRM Board to the Hon. David Speirs relating to koala management be forwarded to the Hon. Tim Whetstone, Minister for Primary Industries and Regional Development.

Carried

146/2.2 Water Policy

See item 3.3 *Applying Principle 2.3.2.9 (Principle 9) of the 2017 Water Affecting Activity Policy.*

146/3.1 Finance and Audit Committee Report

A letter has been sent to the Department of Premier and Cabinet seeking support to remunerate Finance and Audit Committee members at the Board rate.

146/3.2 Draft National Biosecurity Statement

1. Members to review the statement and provide feedback to the Executive Officer.
2. Executive Officer to research statements relating to island biosecurity.

A draft response to be considered at the November meeting.

146/3.2.1 Top Ten Environmental Biosecurity Priorities

A letter of response to Dr J Virtue regarding the Board's approved top 10 environmental biosecurity priorities has been written and sent.

M Greig and J Hughes joined the meeting at 9:14 am.

3. Board matters — for decision

3.1 Finance and Audit Committee outcomes

Policy A04 *Event conference attendance policy – Board and Committee members* and A05 *Interstate and overseas travel* were reviewed and presented to the Finance and Audit to comply with audit and governance requirements. The Board requested that Policy A04

Motion

Moved C Wickham Seconded

That the Kangaroo Island Natural Resources Management Board thank A Jessup for his letter and state the Board empathises with his position and shares his concerns, but due to current legislation, the capacity of the dam and rainfall variability, the Board is unable to support prescription of this catchment at this time. However, the Board will continue to work with SA Water to achieve environmental outcomes for the Middle River catchment.

Unsupported

Motion 3.2

Moved C Wickham Seconded J Stanton

That the Kangaroo Island Natural Resources Management Board thank A Jessup for his letter and in that letter:

- Outline the current five year project *Environmental Assessment of Water Management Options for Kangaroo Island* being delivered by NRKI and the DEW Science and Information Group, the results of which will form the scientific basis upon which discussions with SA Water regarding water released for environmental outcomes can occur.
- Assure Mr Jessup the Board will continue to work with SA Water to encourage release of environmental flows in the future where applicable.

Carried

3.3 Applying Principle 2.3.2.9 (Principle 9) of the 2017 Water Affecting Activity Policy.

Principle 9, which enables the Board to assess the merits of overriding the property scale water take limits on a case by case basis, was presented to the Board with a draft guidance document for use by the Board and a draft risk assessment framework for use by the Administration when preparing recommendations for the Board on each particular case.

Discussion regarding ensuring larger landholders cannot use the principle to secure so much water that water is no longer available for smaller landholders downstream. Due to public lands and roadside reserves being a proportion of each catchment, this should not occur.

Discussion regarding the data required to undertake the proposed assessment. Past water affecting activity applications contained enough information to undertake the proposed assessment.

The Board will review the guidance document and risk assessment framework and requested they are edited while they are doing so.

Motion 3.5

Moved J Stanton

Seconded P Rismiller

That the Kangaroo Island Natural Resources Management Board approves the release and distribution of the communications survey subject to the inclusion of ratings scores and a grouping of participants.

Carried

4. Any other business

4.1 Letter from AgKI regarding Cape tulip

Discussion regarding the letter from AgKI about management of Cape tulip.

Motion 3.5

Moved D Welford

Seconded J Taylor

That the Kangaroo Island Natural Resources Management Board receives the correspondence and the emailed response.

Carried

4.2 Feral Cat Eradication Program

The Board received a verbal update on the progress of the Feral Cat Eradication Program, including the proposed feral cat barrier fence. Land owner approval has not been reached for the proposed feral cat barrier fence. An alignment using roadside reserves is being re-investigated. The fence must be built by June 2020.

The KI NRM Board broke for morning tea at 10:32 am. The meeting resumed at 10:42 am.

D Green and M Agnew joined the meeting at 10:42 am.

5. Presentation

Environmental Assessment of Water Management Options for Kangaroo Island Project — Project update by Dr Douglas Green, Senior Aquatic Ecologist, DEW

Background

A 2007 CSIRO review of water management on KI suggested:

- Update rainfall runoff relationships with KI data. This was completed in 2014 and formed the basis for the water policies in the new plan.
- Incorporate an ecological component to the assessment and development of use limits. This project will undertake this assessment.

Concepts

Water dependent ecosystems (WDEs) are ecosystems that develop around a water source. This project focuses on rivers, streams and creeks.

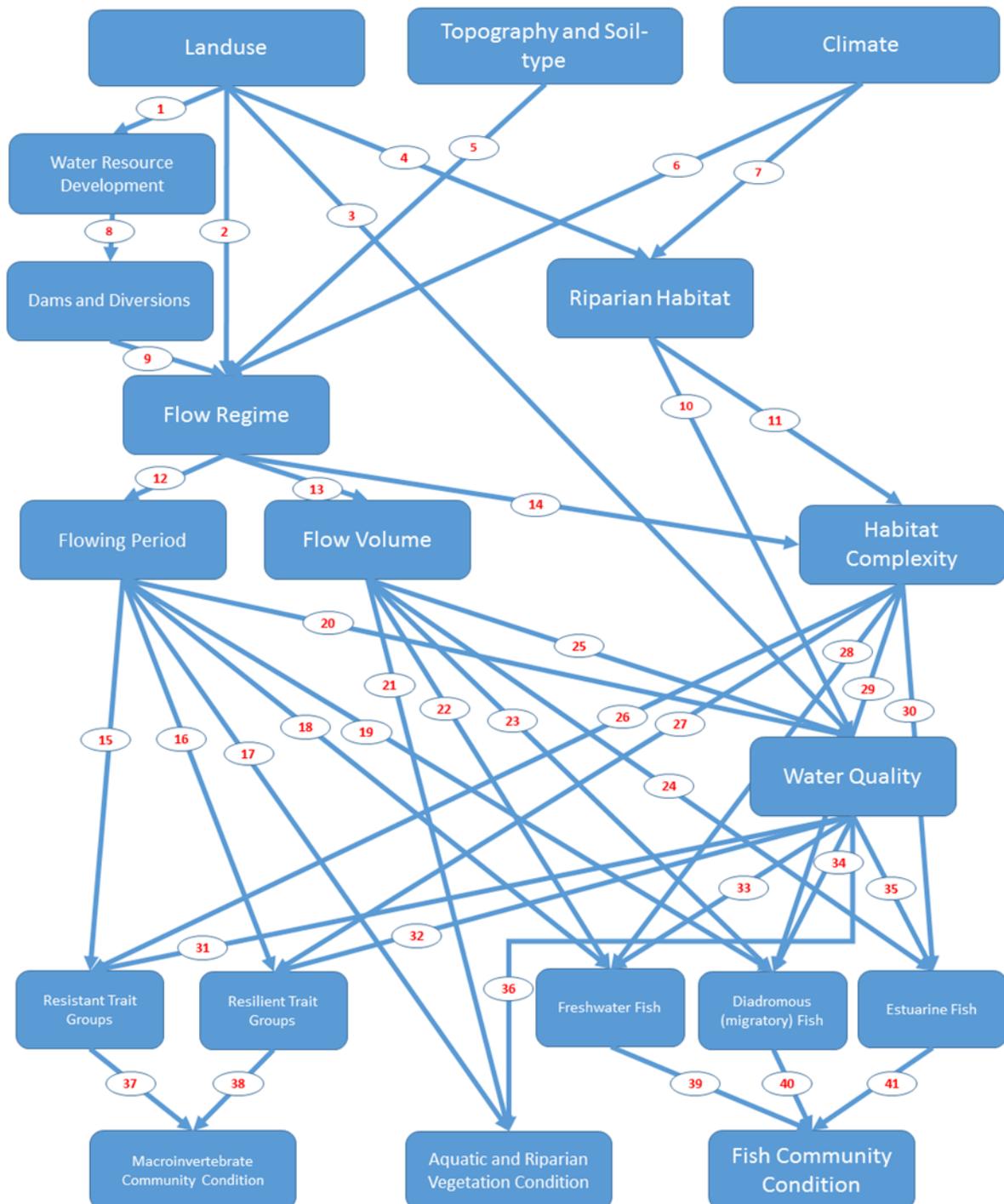
Drivers of WDE condition

Many parameters effect WDE.

Work to date shows the flowing period (the time of year that the river flows) has the biggest impact on WDE condition, followed by flow volume.

The biggest impact on flow period is development.

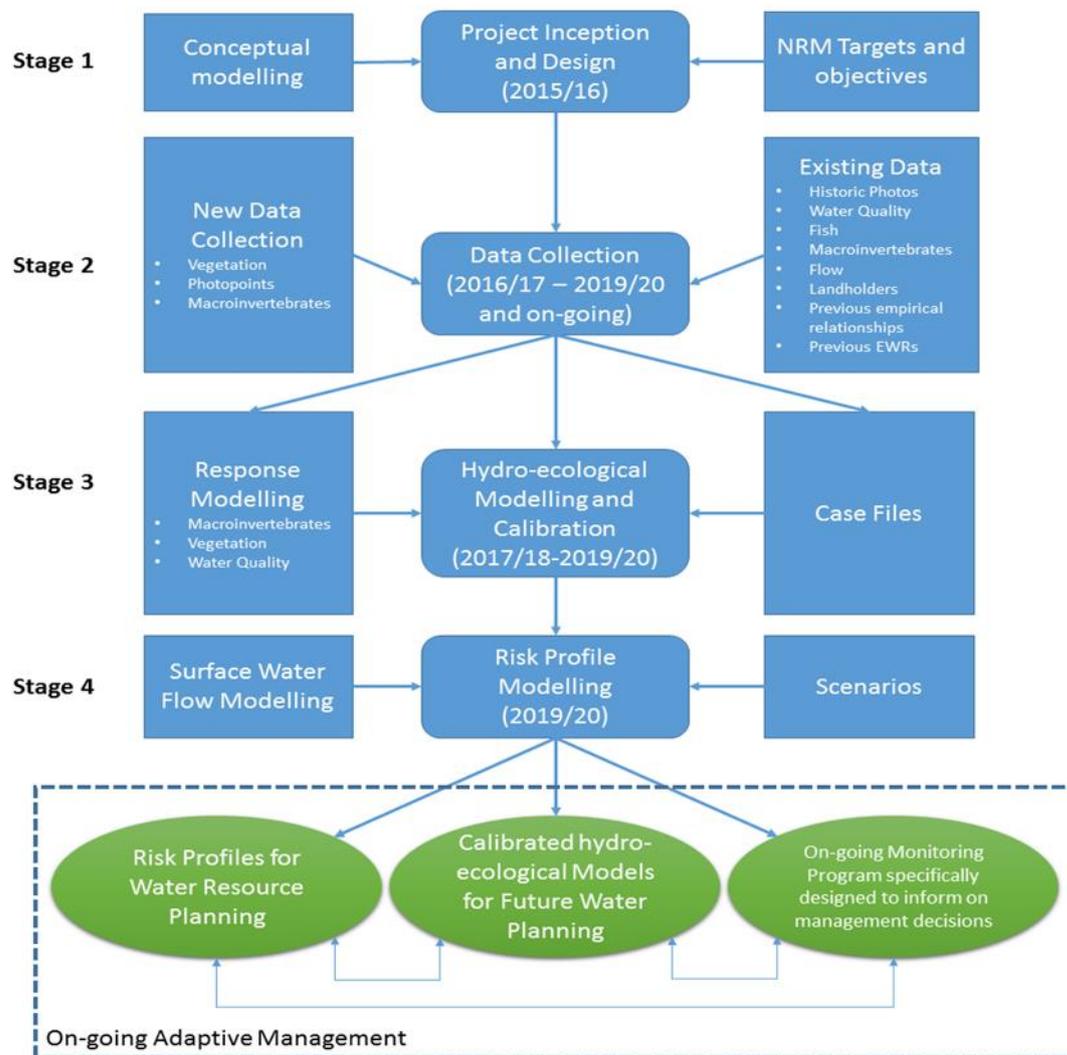
Drivers of water dependent ecosystems



Project scope

1. Design
2. Monitoring – will be complete in one more year
3. Analyse
4. Report – will be presented as changes compared with current ecosystem condition.

Project scope and timeline



The green ovals represent the project products.

Project design

Year 1 was dedicated to design of the program

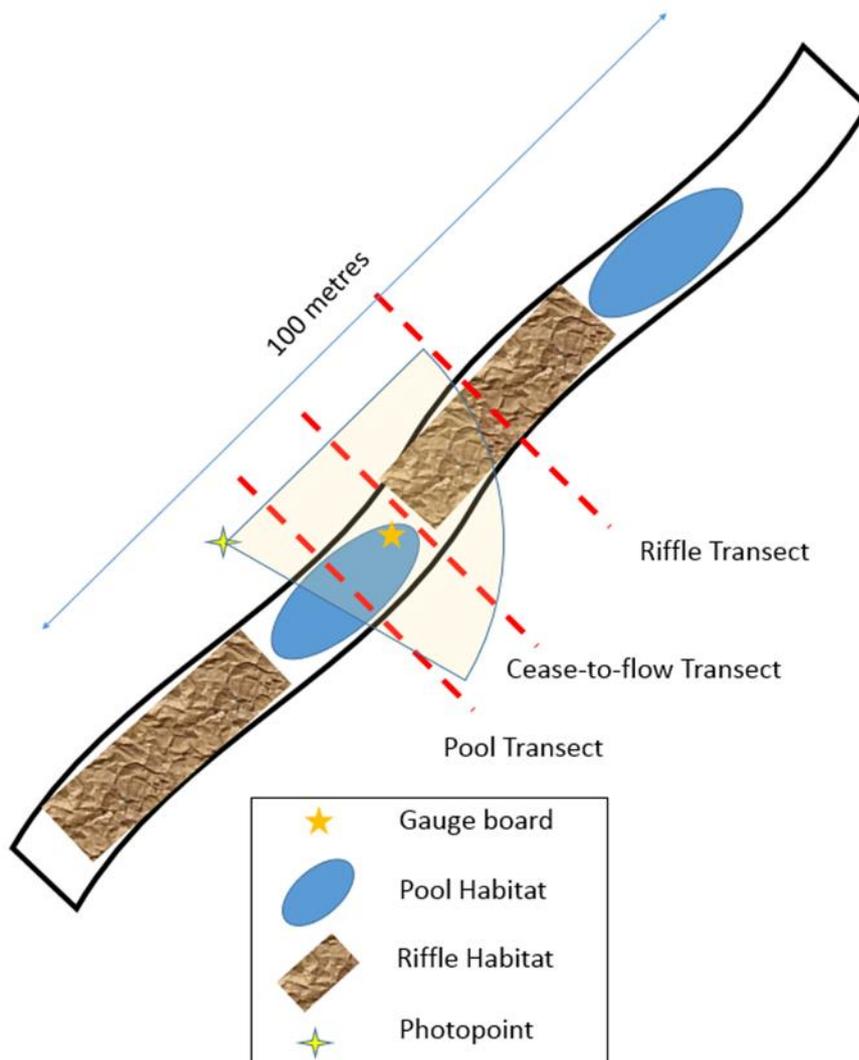
- Ensure the approach was considered, fit for purpose and would provide the required information to NRKI and the Board.
- Resulted in the Monitoring and Analysis framework.
- Published earlier this year.

Years 2-4 are dedicated to monitoring

- Monitoring and Analysis framework sets out monitoring priorities including sites, indicators and methods.

- Sites were selected using a set of criteria including previous data and information, spread across the island and landuse.
- Indicators that were chosen were macroinvertebrates and aquatic and riparian vegetation. Macroinvertebrates are being monitored instead of fish as they give a more comprehensive picture of water quality at a lower cost.
- Additional data collected at each site. Most monitoring sites have loggers which capture data continuously and can be used to determine flows.
- The on-going monitoring program will be compatible with monitoring occurring across SA.

Stylised site setup



Where are we now?

	Undertaken in this project	Collated from other relevant sources
Waterbugs	46 surveys (19 sites)	550 historical surveys (131 sites)
Aquatic and riparian vegetation	39 transects (13 sites)	-
Watercourse shape	60 transects (18 sites)	-
Flow regime	9 new project sites have been installed that have logging	13 current and historical pre-existing monitoring sites with logging (records for one site start in 1969)
Water quality	45 site visits that collect numerous water quality parameters (20 sites) 4 new project sites have been installed that have logging	4,650 site visits that collect numerous water quality parameters (284 sites) Salinity logging (10 sites)

This year

- The EPA monitors water quality across KI every five years and as part of this they will monitor macroinvertebrates on KI in 2018. This frees up money to start the analysis and risk assessment process.
- Few additional vegetation and cross sections to be done.

Analysis process

Develop a model that links drivers and condition

- options in method
- preferred method – Bayesian Belief Network (BBN)
- probability based statistical method
- very visual » easy to interpret.

BBN approach:

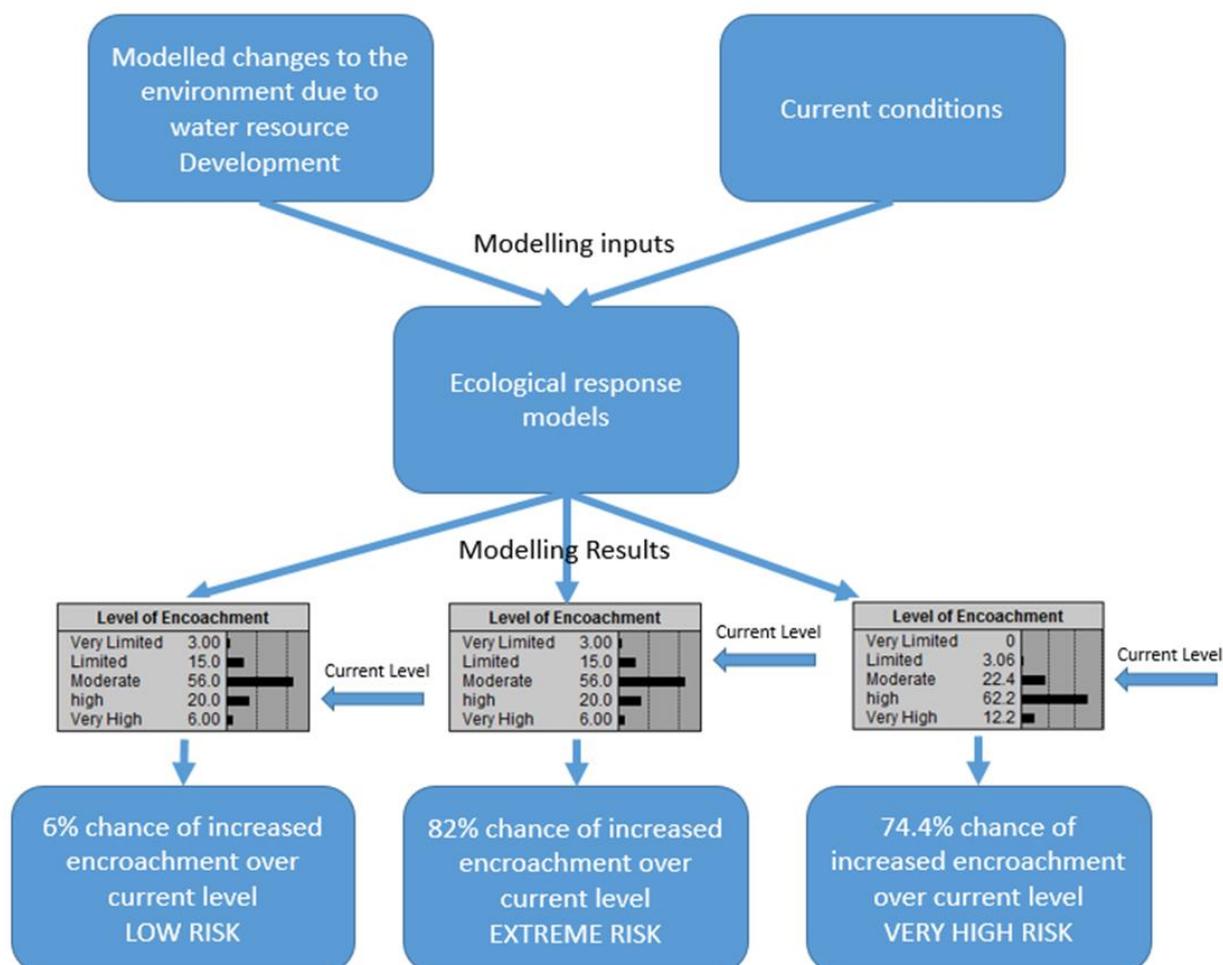
- develop case files for sites
- use case files to 'train' model
- trained model can provide 'current' condition
- adjusting parameters (different management options) will provide changes in condition.

BBNs:

- are a parameterised conceptual diagram
- use probability statistics to identify the most likely outcome
- can use almost any type of data.

Modelling

Data collected from this project, combined 30 years of flow data from the Cygnet River, will be used to develop a model for Kangaroo Island.



Ongoing monitoring

- Will use citizen science. Community involvement will increase over the next two years so they can become responsible for the monitoring at the end of the project.
- Training of local experts in the methods and macroinvertebrates.
- BioBlitz model from Angas Catchment has used citizen science very successfully.

6. Board questions and discussion

1. *What information is being used from the original Rivers of Life project undertaken by Tom Nilsen?*

Monitoring techniques have changed since the Rivers of Life project was conducted but the data is being used to track environmental changes. The data collected on riparian corridors will be used in the model.

2. *Is the KI data being used elsewhere?*

KI data is also being used by the Atlas of Australia and the Australian Bureau of Meteorology.

Discussion regarding the benefits of developing a method to communicate the water monitoring and analysis that has been undertaken on KI into a format, such as a story, to keep the KI community informed of condition and trends.

6. **Board workshop schedule**

Discussion regarding the planned workshop schedule.

7. **Next Meeting**

Resolved

That the next meeting be held on 23 November in the KI NRM Board Room, 35 Dauncey Street, Kingscote unless otherwise advised.

8. **Closure**

The meeting closed at 11:30 am.

Signed:



Richard Trethewey
PRESIDING MEMBER
KANGAROO ISLAND NATURAL RESOURCES MANAGEMENT BOARD

Date: 23 November 2018