



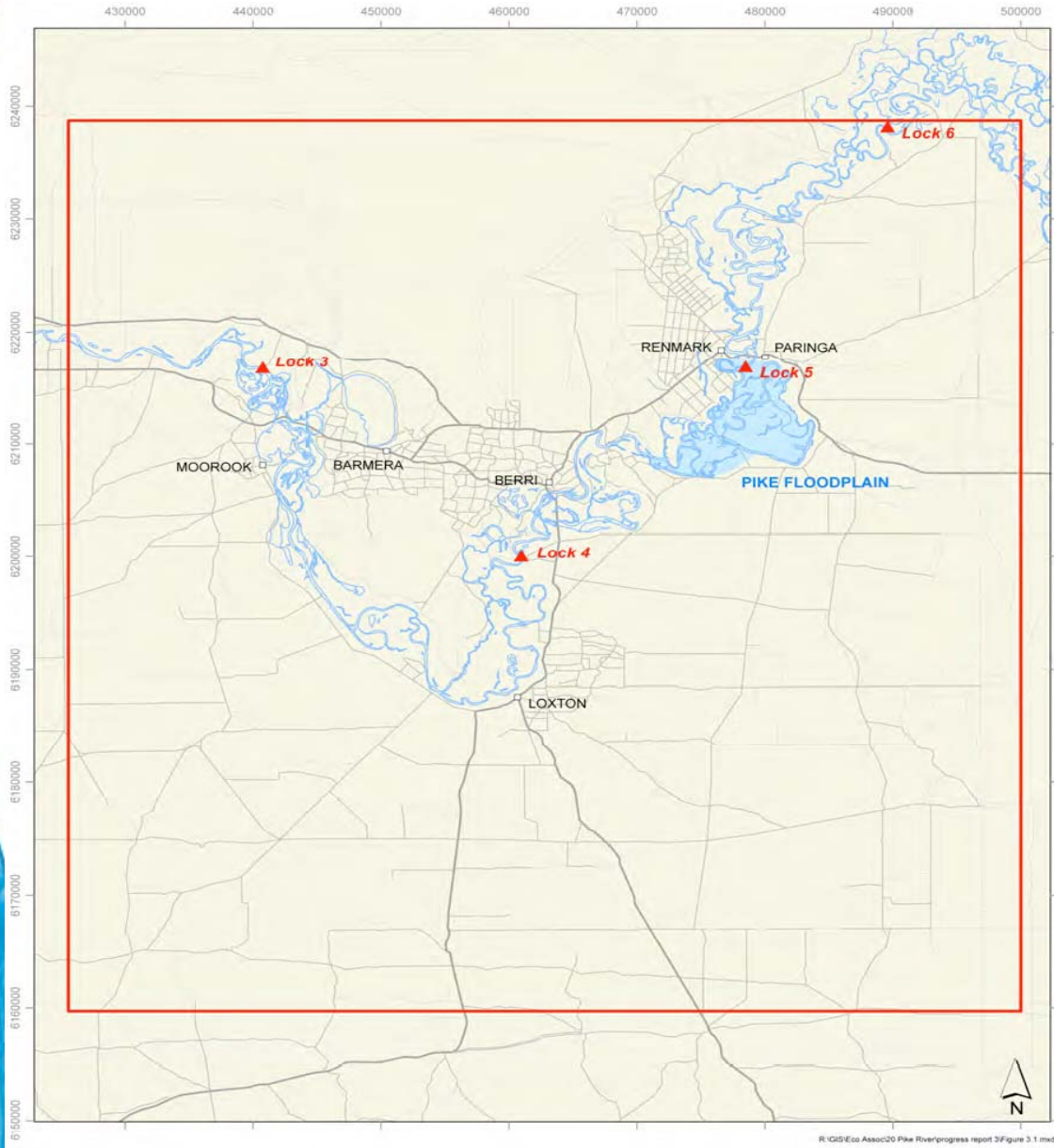
PIKE

IT'S A PLACE NOT A FISH

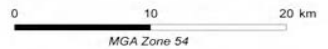


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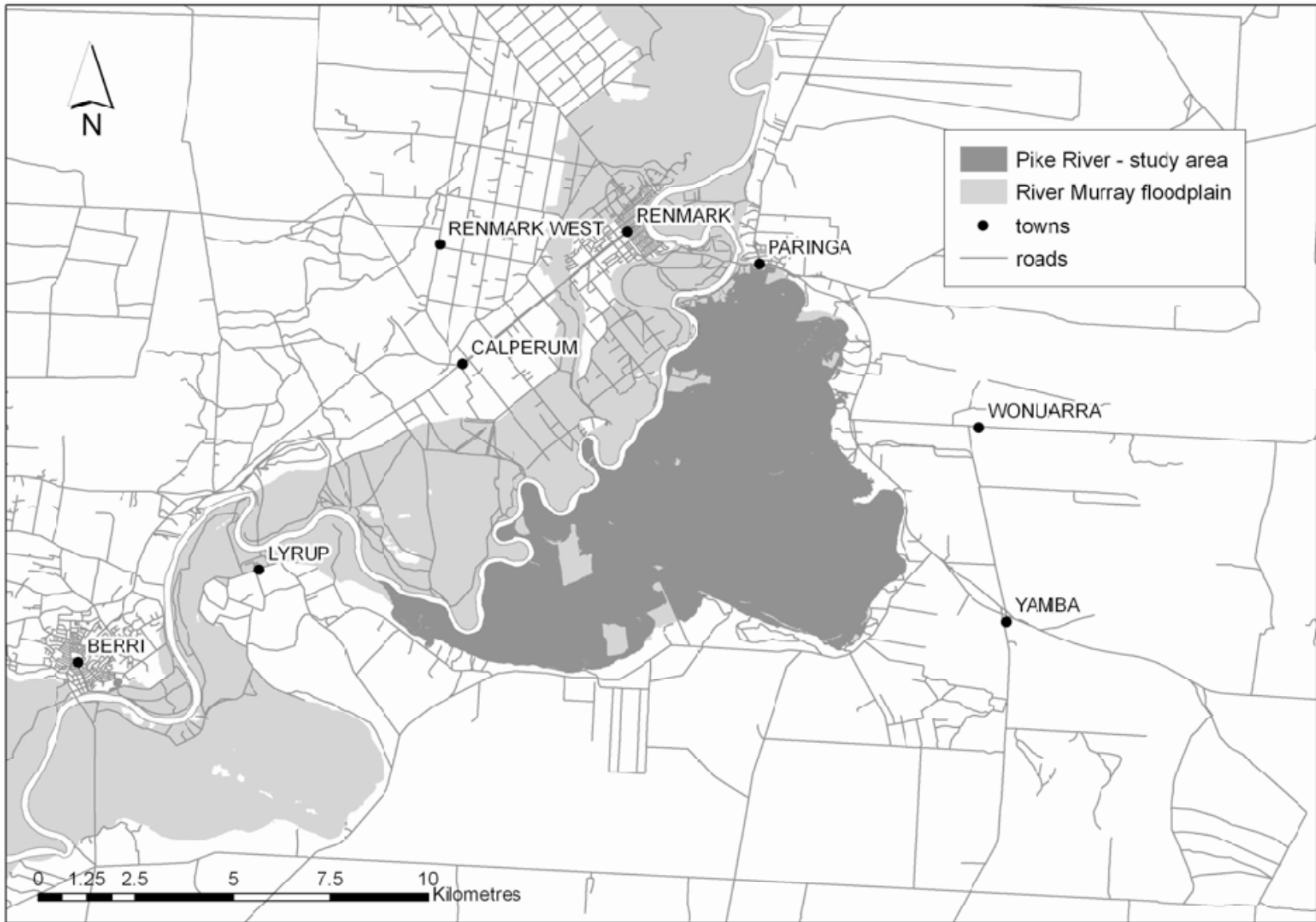


- Model Domain
- Pike Floodplain
- ▲ Locks
- River Murray
- Roads



DWLBC Border to Lock 3 Model Domain
after Yan et al, 2006

P A I R K E E A





Pike Implementation Plan (PIP) Coordinator Role

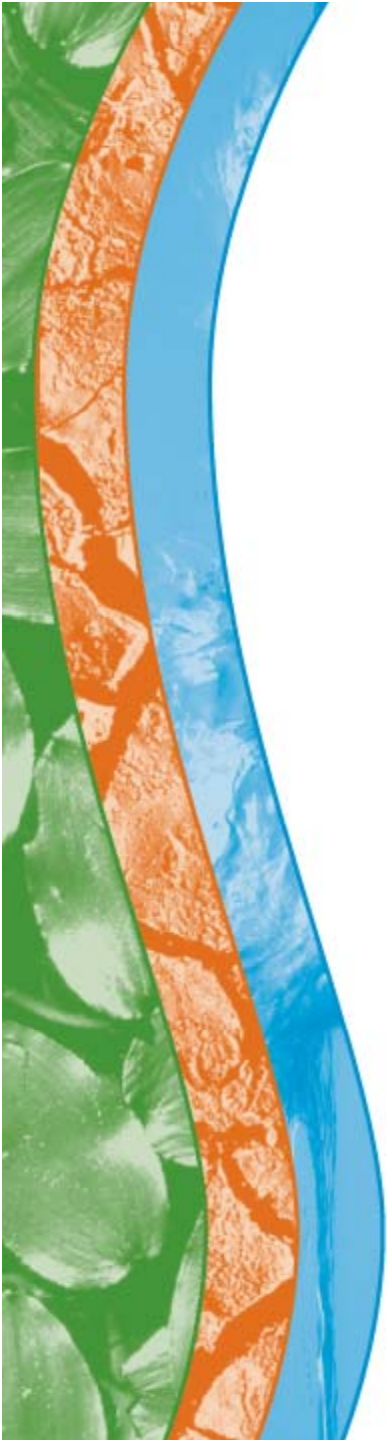
The PIP Coordinator is responsible for

- Coordinating, integrating & developing the Pike Implementation Plan
- Ensuring all stakeholders/partners have input into the PIP & managing this input
- Ensuring open communication occurs regularly
- Investigating opportunities for research in the Pike Area
- Locating future funding for the PIP project



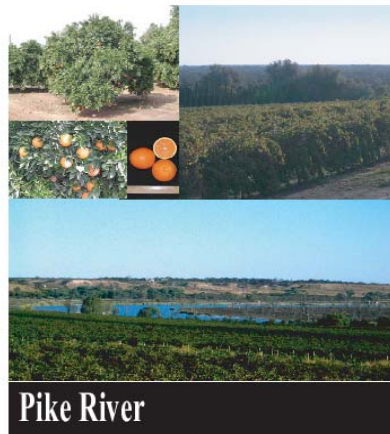
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Pike River Land & Water Management Plan

Pike River Upgraded **LWMP**



Pike River
Upgraded Land and Water
Management Plan

Final, November 2006



RENMARK
BY THE
BORDER
LOCAL ACTIVITY PLANNING
ASSOCIATION INC.



DEPARTMENT
OF SOUTH AUSTRALIA
DEPARTMENT OF PLANNING
AND INFRASTRUCTURE



action
SAfity & Water
AUSTRALIA



Australian
WATER
Department of Water

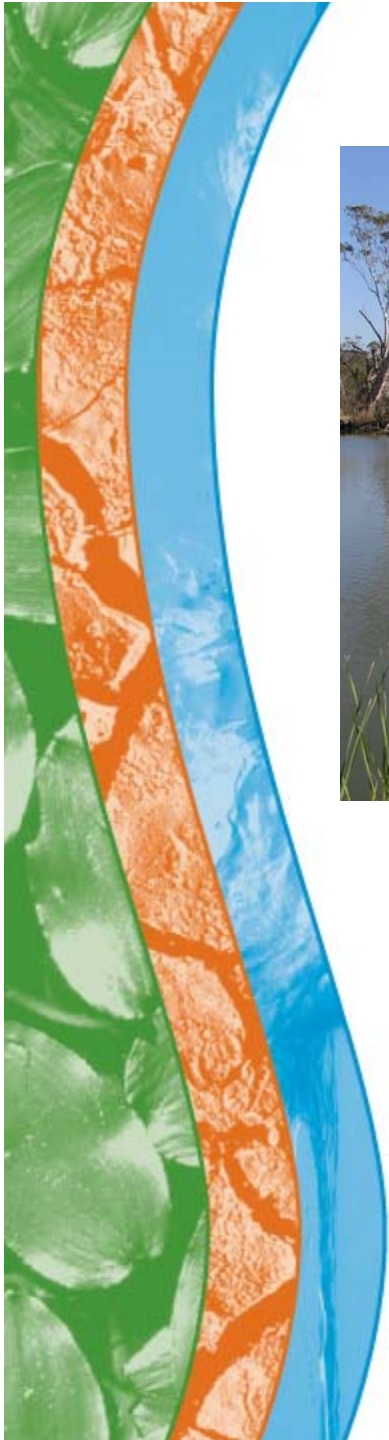
Pike River Upgraded LWMP



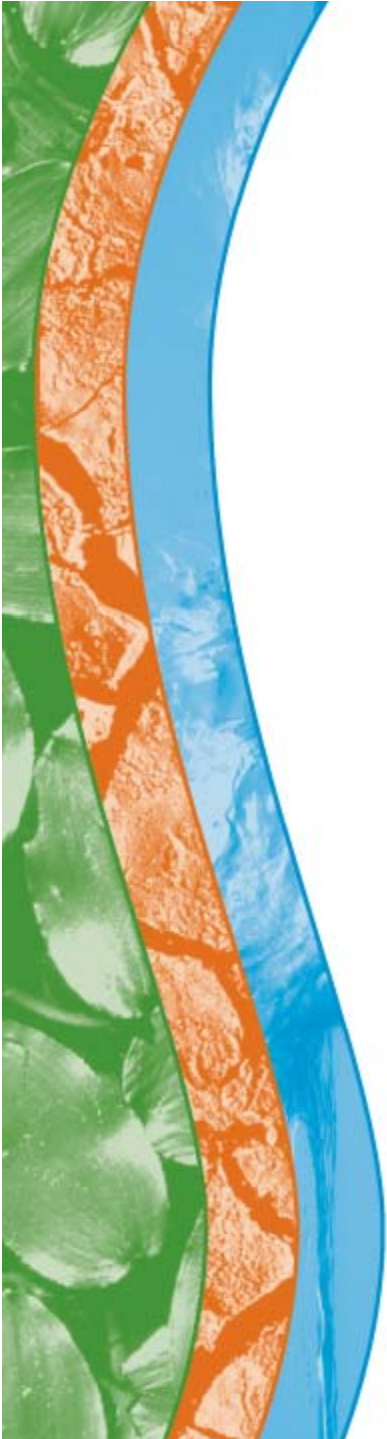
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Community Involvement









PIKE IMPLEMENTATION PLAN (PIP)

AN INTEGRATED PROJECT

The PIP provides a coordinated approach to

- improving the environmental health of the floodplain
- reducing salinity impacts and
- providing a secure & good quality water supply to irrigators

For the Pike River anabranch near Renmark is South Australia



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Workshop Goal

The goal of the workshop was to exchange information on the challenges facing the Pike River system and to explore information gaps that would benefit from further research.

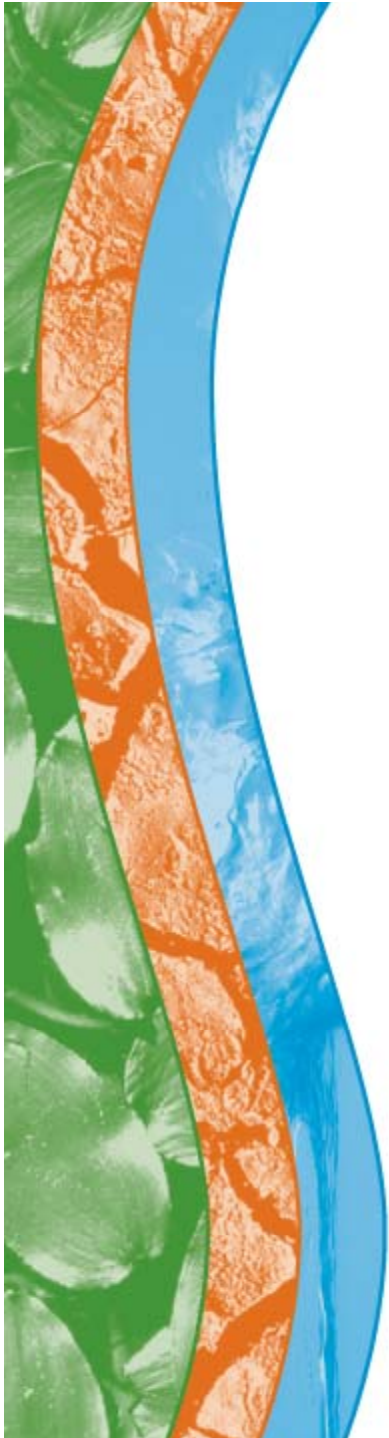
**INFORMATION TO THE PIKE COMMUNITY VIA
AN ARTICLE IN THE APRIL 2008 PIP NEWSLETTER**

**“SUCCESSFUL RESEARCH WORKSHOP FOR PIKE
HELD 7-3-08”**



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LIVING LABORATORY – Pike Workshop Topics covered

Problems and solutions to the Pike River Irrigation Areas

Landscape science research interests

Optimisation research interests

Soil science research interests

Ecological modelling interests

Groundwater research interests

Late Holocene palaeo-reconstructions from stable isotopes in Pike River

Paleo-ecological research in the Pike River

Research interests in agricultural economics



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PIKE RIVER AREA RESEARCH PROSPECTUS 2008

Purpose of Prospectus

Background

Scenario Analysis through integrated
landscape modelling

Salinity impacts and amelioration on the
floodplain

Acid Sulfate Soils Research

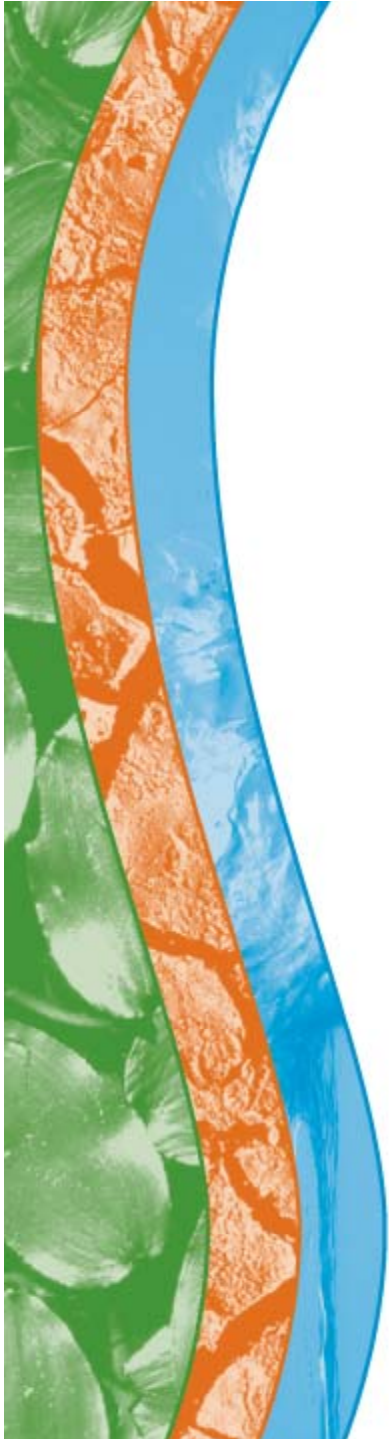
Fish Studies

Paleo-ecological studies



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SCENARIO ANALYSIS THROUGH INTEGRATED LANDSCAPE MODELLING

This research would allow the comparison of different management options through simulation.

Investigations using a simulation model for Pike River

- Economic outcomes of different land use for example
- Increased water use efficiency
- Flow (It is important that the Pike River implements a flow regime that supports the environmental assets as well as meets irrigation needs)



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SALINITY IMPACTS AND AMELIORATION ON THE FLOODPLAIN

Further study is required to address the following issues:

- Sustainable salinity dynamics
- Irrigation of saline soils with saline river water
- How to re-vegetate severely degraded saline soils?
- Water table measurement and monitoring; Groundwater management on the floodplain for environmental benefit and tree health



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ACID SULFATE SOILS

The first step of Acid Sulfate Soils is to identify areas of actual or potential Acid Sulfate Soils.

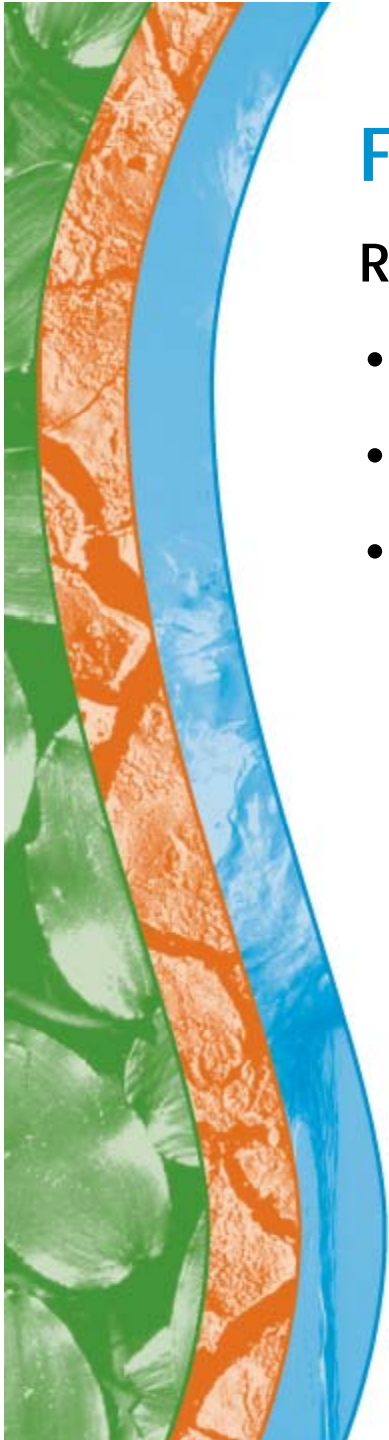
Based on the results of this mapping, management options should be canvassed and feasibility investigated.

Dead samphire in acid sulfate soil of salt depression



Kangaroo tracks in acid sulfate soil





FISH STUDIES

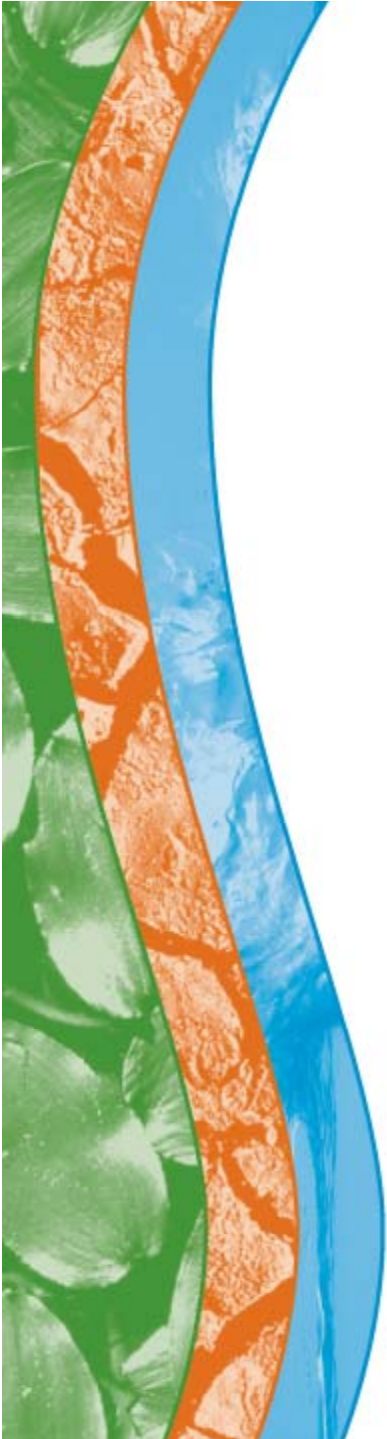
Research is needed on

- Fish numbers
- Fish species present
- Habitat



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PALEO-ECOLOGICAL STUDIES

Paleoecology uses data from fossils and sub-fossils to reconstruct the ecosystem of the past.

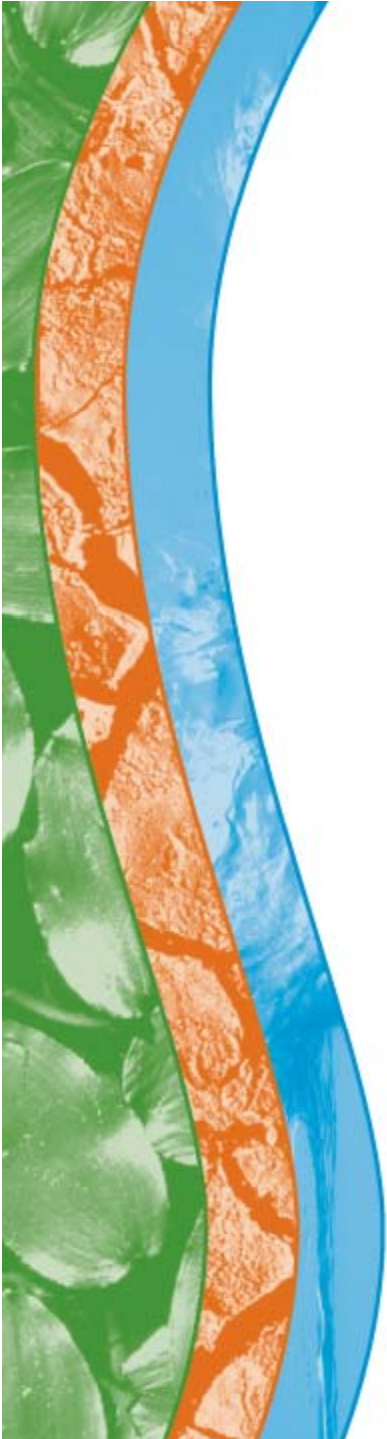
Two particular projects that could be beneficial are:

- Sedimentation rate analysis
- Reconstruction of flooding/drying regimes in the system



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**ONGOING PARTNERSHIPS AND
AN INTEGRATED APPROACH
WILL ENABLE CONTINUED
RESEARCH OPPORTUNITIES TO
BE DEVELOPED FOR PIKE**



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OUR PARTNERS & STAKEHOLDERS INCLUDE



Government of South Australia

Dept. of Water Land and Biodiversity Conservation

Dept. Environment and Heritage



Government of South Australia
South Australian Murray-Darling Basin
Natural Resources Management Board



RENMARK
TO THE
BORDER
LOCAL ACTION PLANNING
ASSOCIATION INC.

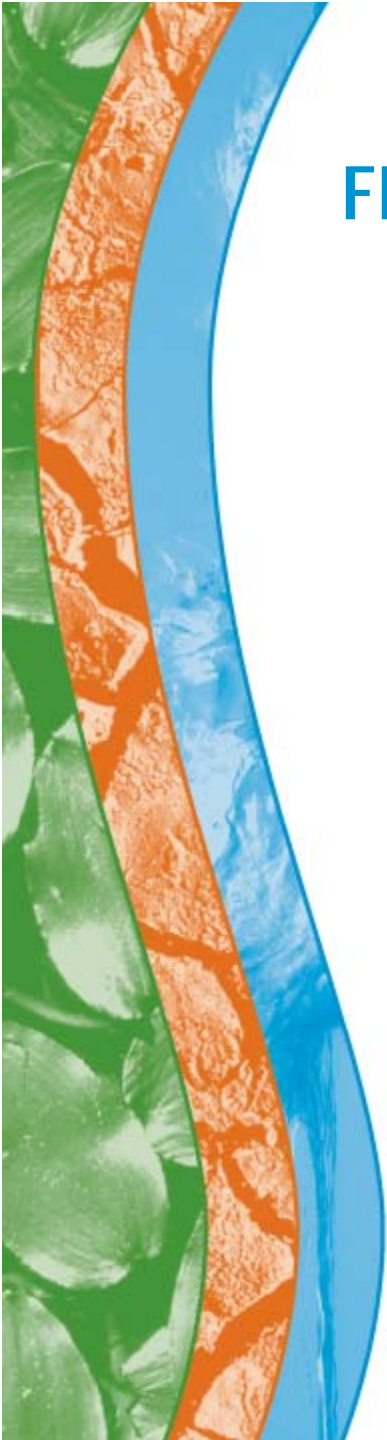
The Pike River
Community



Australian Government



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FROM THE COMMUNITY

**THANK YOU
FOR YOUR INTEREST
IN THE PIKE RIVER AREA**

AND REMEMBER
PIKE – IT'S A PLACE NOT A FISH



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