

Capacity Building with Watershed Communities

An aerial photograph of a lush green watershed. A river flows through the center, surrounded by dense forest and rolling hills. In the lower right, a small settlement with several buildings and a dirt road is visible. The sky is overcast with soft, diffused light.

USDA Natural
Resources
Conservation Service

■ *Capacity building is the transfer of knowledge to increase awareness and participation in problem solving to empower action.*

Methods of Capacity Building



Coordinated resource management planning process



Collaboration, building alliances and partnerships, working with partners through the whole process.



Consensus, getting the owners, managers, and users involved in the decision making process.

Ngerikiil Watershed

Airai State, Palau



Primary Water Source for Koror and Airai



Ngerikiil Dam

(1985)

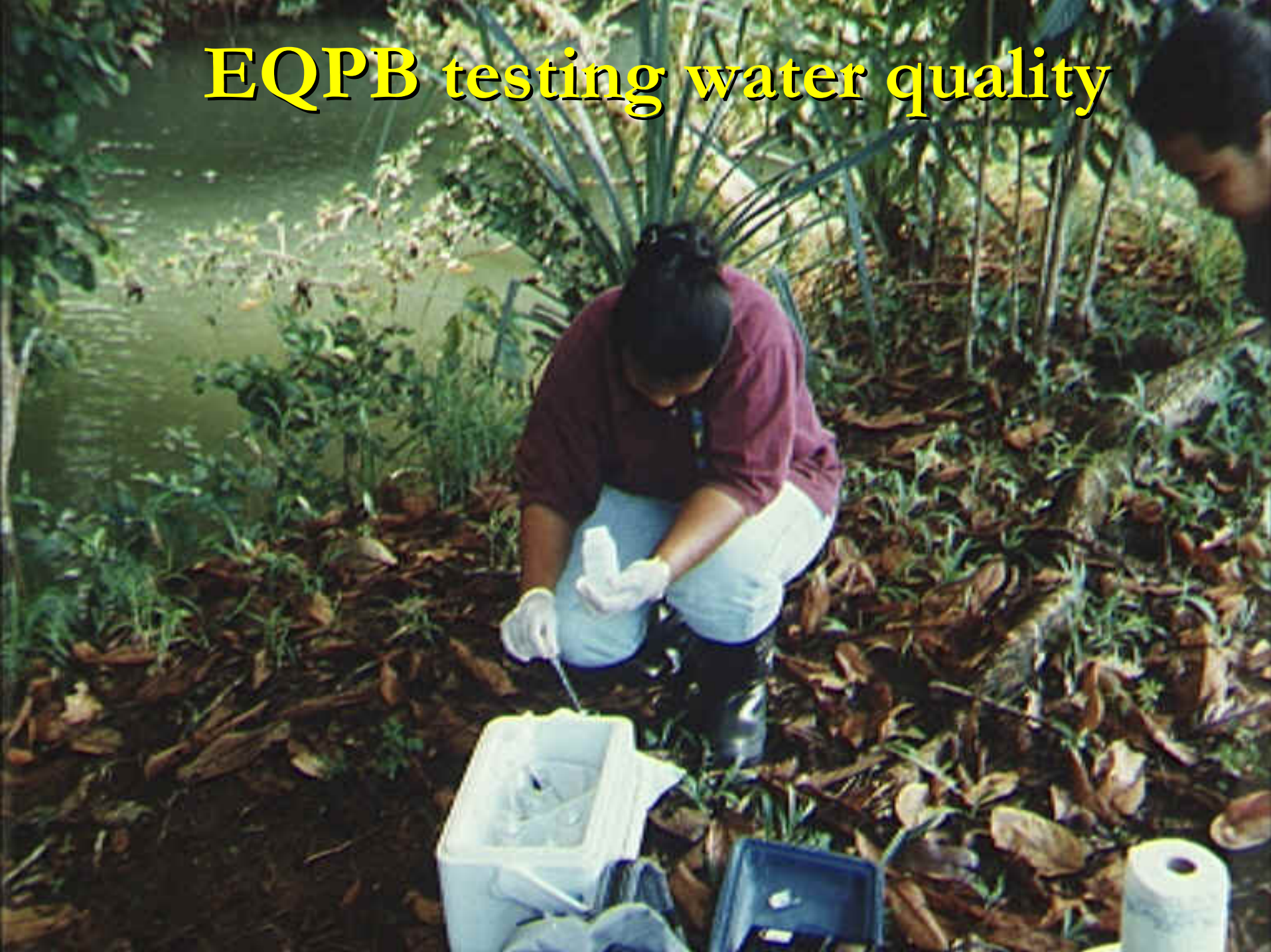
Development increasing in Ngerikiil Watershed



Expansion of farming areas



EQPB testing water quality



Palau Natural Resource Council







Airai Bay

Showing sedimentation



Watershed planning process

- **Identify the goals or objective**
- **Inventory resources, analysis inventory data to id problems**
- **Develop solutions or alternatives, and evaluate alternatives**
- **Make decisions and implement solutions**

Capacity Building part of every step of the planning process



Increase awareness of resource relationships and interactions



To build consensus in the recommendations to address natural resource concerns



To achieve social change, or implementation of solutions

Community Action

Airai Working Group and Partners







Road construction and unpaved roads cause estimated maximum erosion of 488 tons/acre/year



Non-traditional farming creates an estimated maximum erosion of 325 tons/acre/year



Burning savannas creates an estimated maximum erosion of 98 tons/acre/year



Construction sites produce an estimated maximum erosion of 77 tons/acre/year



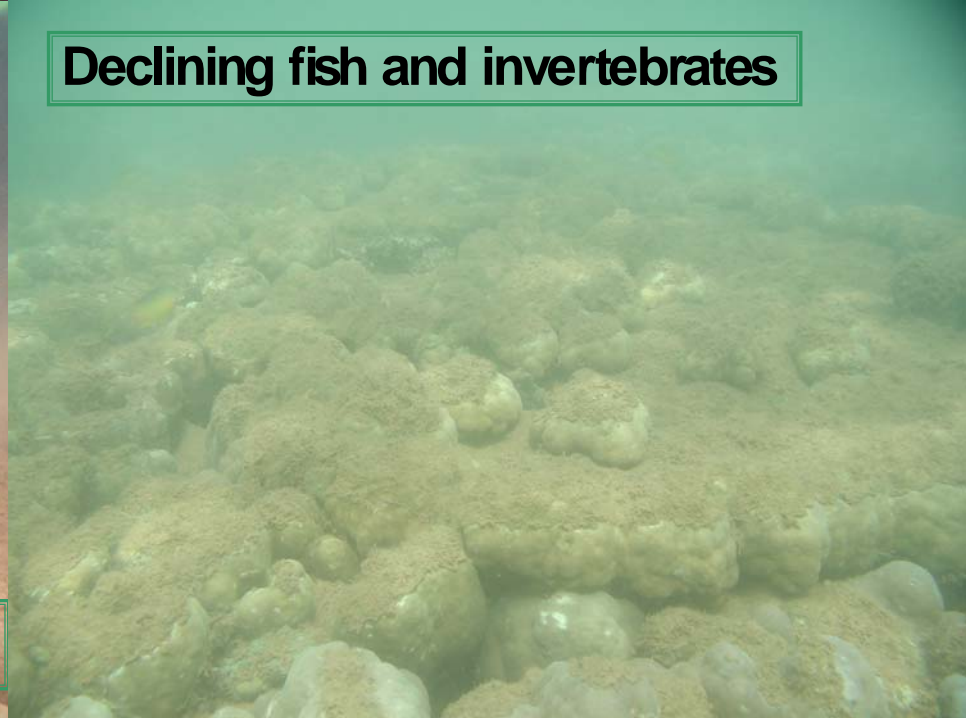
**Declining water
quality**



Degraded soil



Declining fish and invertebrates



Serious damage to reefs in Airai Bay



Ngerikiil watershed process

- **Completed the resources inventory**
- **Analysis of the resource data**
- **Formulation of alternatives started**
- **Implementation in a few areas**
 - **Sustainable farming**
 - **Riparian Buffer**

Agroforestry



Low till, grass and fruit trees



Sunhemp



Mulching and grass cover



Riparian Forest Revegetation Community Tree Planting



**Governor Rengulbai,
planting a tree**



Main Outcomes of Capacity Building



Stakeholders participated in process, and have confidence in the outcome



Interest in and understanding of the problems has been increased



Local groups and stakeholders take more responsibility for managing their resources

Next Steps for the Ngerikiil Watershed

- Use the results of the resource inventory to
- Formulate workable alternatives to solve all of the erosion and sedimentation problems
- Implement the solutions to address the problems

Priority capacity needs



- Scientific data

A vibrant tropical landscape featuring lush green hills and a clear blue sky. The foreground is dominated by dense, diverse vegetation, including tall palm trees and various tropical plants. In the middle ground, a valley filled with greenery leads to two prominent, rounded hills. The background shows a distant view of the ocean under a bright, clear sky. A semi-transparent blue box is overlaid on the lower center of the image, containing white text.

**Capacity Building in
Conservation Planning
or Land Use Planning**

Actions Needed

- **Funding**
- **Land Use Planning**