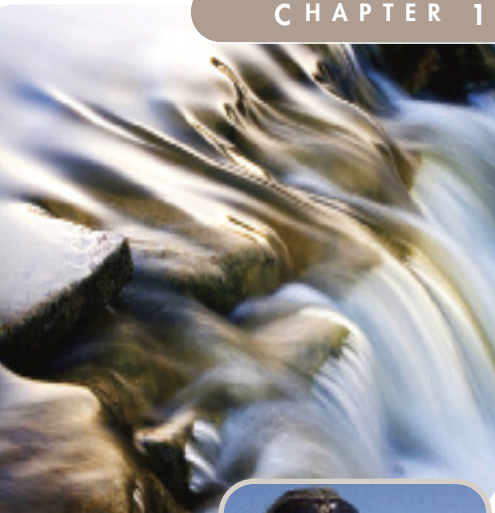


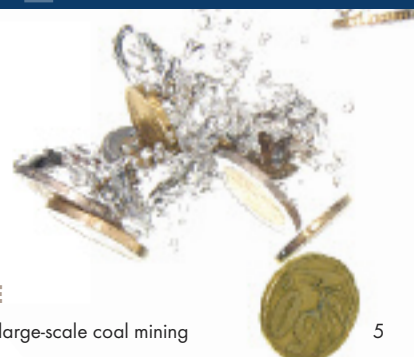
CON

WATER RESEARCH: PURSUING A BETTER LIFE FOR ALL

CHAPTER 1



CHAPTER 2



WATER: PRECIOUS NATURAL RESOURCE

Ecological indicators developed for the Waterberg prior to large-scale coal mining	5
Freshwater ecosystems protected for a water-safe future	8
Keeping estuaries healthy	10
Developing management tools for complexities of estuaries	11
Predicting toxic blue-green algal blooms	13
Particular freshwater algae thwart sun's UV rays	14
Changed chemical composition of water leads to new arrivals	15
Indigenous trees show benefits in terms of water and economics	16
Bullfrogs tell the story: Assessing the health of a wetland	17
Africa's tough child, sorghum, helps develop drought tolerant maize	18
Remote sensing techniques used for inland waters	19
Remote sensing contributes to eutrophication monitoring programme	19
Conservation practice improved through social science	24
Hope for gender equality around De Hoop Dam	25
Water plays strategic role in South Africa's economy	26
Water as an economic currency: zooming in on value drivers	28
Selling water in the Olifants River catchment	30
Selecting appropriate technologies in water and sanitation	31
Virtual water to help alleviate water scarcity	32
Reducing the impact of road construction on water resources	34
Towards water conservation in buildings	35

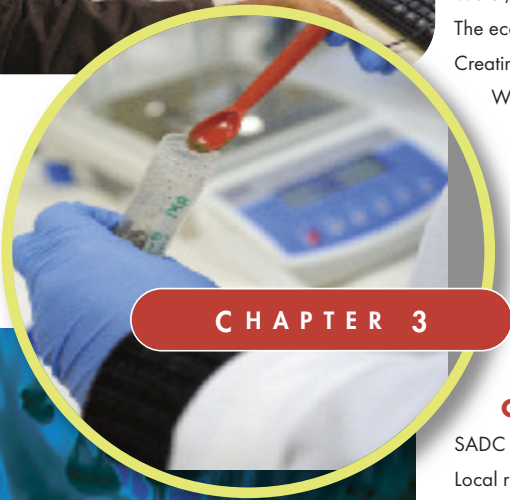
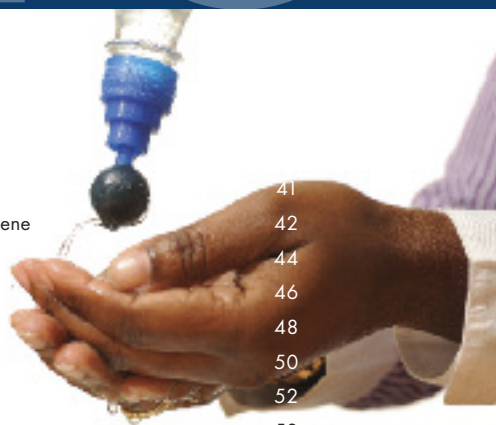
THE INTERFACE: HUMAN-ENVIRONMENT

Understanding the complex ecology of cholera epidemics in southern Africa	37
Sequencing the complete genome of a South African cholera bacterium	39
Water's role in improving the lives of those living with HIV/Aids	40

TENTITS



- Solar disinfection of drinking water 41
- Addressing rural health and poverty through water sanitation and hygiene 42
- Clean, drinkable water with the help of nanotechnology 44
- Promoting good health through hygiene 46
- Monitoring the quality of bottled water 48
- Guidelines for measuring endocrine disrupting chemicals in water 50
- Water, vulnerability and environmental health 52
- The economics of waste water: Prevention or cure? 53
- Creating treatment technologies that pay their own way 54
- What is wrong with Lake Loskop? 56
- Helping industry curb water wastage 59
- Research on mercury in water sources nears completion 61
- CSIR employees use no-mix toilets in pilot study 64
- Developing a pesticide risk indicator for farmers 66
- Water-wise, competitive industries 67



CHAPTER 3

THE INEXTRICABLE LINK: CLIMATE CHANGE AND OUR WATER RESOURCE

- SADC collaborates for research on climate change and water resources 69
- Local risk atlas can help government planning 70

CHAPTER 4

WATER RESOURCE GOVERNANCE

- Exploring new approaches to transboundary water governance 73
- Scenarios help to strategise for the future 75
- CSIR investigates the uptake of evidence into policy 76
- Water demand prediction models put to the test 77

