

Water International >

Volume 41, 2016 - [Issue 3: Out of Mines, Out of Site: The water legacies of conventional mining](#)

763 Views | 13 CrossRef citations to date | 0 Altmetric

Articles

# Unconventional oil and gas extraction in South Africa: water linkages within the population–environment–development nexus and its policy implications

Surina Esterhuysen , Nola Redelinghuys & Marthie Kemp

Pages 409-425 | Received 11 Aug 2015, Accepted 07 Dec 2015, Published online: 13 Jan 2016

🗨️ Cite this article <https://doi.org/10.1080/02508060.2016.1129725>



Sample our  
Geography  
Journals



>> **Sign in here** to start your access  
to the latest two volumes for 14 days

-  Full Article
-  Figures & data
-  References
-  Citations
-  Metrics
-  Reprints & Permissions
- [Read this article](#)
- [Share](#)

## ABSTRACT

The development of unconventional oil and gas resources, controversial in many countries, is currently being pursued by the South African government. This activity can have large impacts on the socio-economic and biophysical environments, especially water resources. In South Africa, little consideration has been given to water-related impacts from the perspective of the interrelated people–ecosystem linkages that are necessary for sustainable social and economic development. This article explores specific water-related linkages between facets of the natural and social environments pertaining to unconventional oil and gas extraction, with the objective of achieving more effective water resources management and water policy development.

## KEYWORDS:

Unconventional oil and gas

water

impacts

policy

PED-nexus

South Africa

## Related research

People also read

Recommended articles

Cited by  
13

### Information for

Authors

R&D professionals

Editors

Librarians

Societies

### Opportunities

Reprints and e-prints

Advertising solutions

Accelerated publication

Corporate access solutions

### Open access

Overview

Open journals

Open Select

Dove Medical Press

F1000Research

### Help and information

Help and contact

Newsroom

All journals

Books

### Keep up to date

Register to receive personalised research and resources by email



Sign me up



Copyright © 2026 Informa UK Limited [Privacy policy](#)

[Cookies](#) [Terms & conditions](#) [Accessibility](#)

Registered in England & Wales No. 01072954  
5 Howick Place | London | SW1P 1WG

 Taylor and Francis  
Group