

Strategic Environmental and Baseline Assessment (SREBA) – WATER QUALITY AND QUANTITY

Fact Sheet

What is a SREBA and why is it being done?

SREBA stands for Strategic Regional Environmental and Baseline Assessment. It is a set of research studies to understand the current situation of the local people in the region along with determining the current status of plants, animals, water, and air quality, so that any changes over time can be measured through ongoing monitoring programs. This will give the Northern Territory Government up to date and accurate information to make decisions about the development of the onshore gas industry in the Beetaloo region. One study involves research into Water Quality and Quantity.

What does the Water Quality and Quantity domain study?

The water study will establish a baseline for groundwater and surface water hydrology across the region by investigating:

- Water quality
- Aquifer systems and their interconnectivity
- Groundwater recharge rates
- Groundwater and surface water flow models

Who is doing the study?

This study domain is led by the Department of Environment, Parks and Water Security, water scientists and technicians from the Water Resources Division.

How is Water Quality and Quantity studied?

Information collected through previous studies will be used to identify knowledge gaps and plan what baseline data needs to be collected using these methods:

- Repeated sampling of groundwater from bores for quality analysis
- Mapping of relevant geology
- Surveys of groundwater discharge sites
- Measurement of groundwater level
- Installation of new monitoring water bores where necessary
- Pumping tests of bores
- Measurement of surface water flows in groundwater discharge zones
- Determine key environmental and cultural flow thresholds in groundwater dependent waterways.

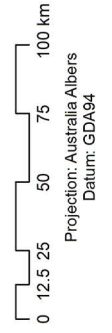
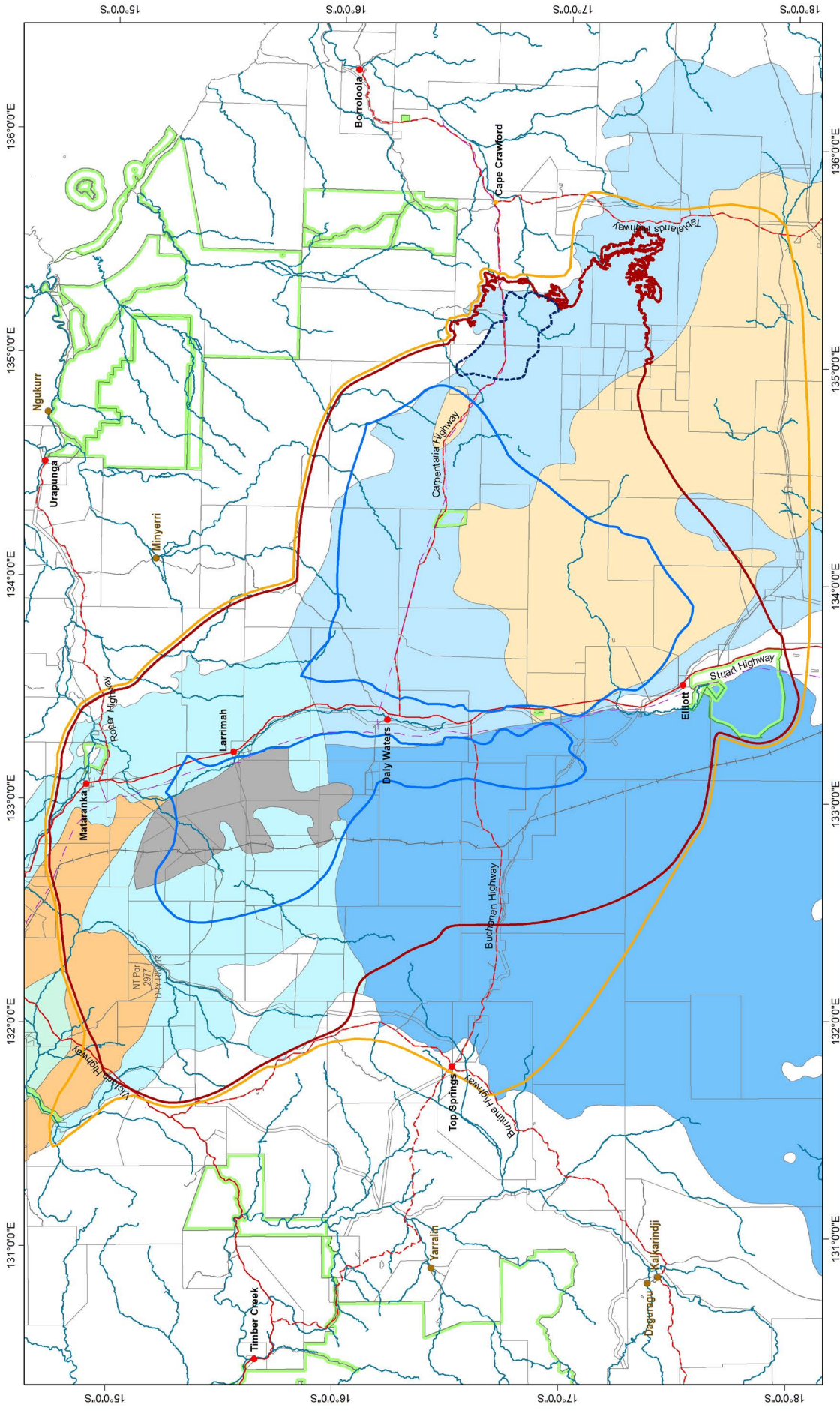
How will the findings be used?

Information collected will be used to assess proposed water extraction of onshore shale gas activities and prevent negative impacts on people and the environment. The information will also be used to guide the new Water Allocation Plans for management of groundwater use. Information collected and reports generated through this study will be publicly available, except where it is identified as culturally sensitive, commercial-in-confidence, or sensitive for privacy reasons.

More information

Vist nt.gov.au/sreba for further information or contact us via sreba@nt.gov.au





Projection: Australia Albers
Datum: GDA94

LEGEND

- Beetaloo Sub-basin
- Beetaloo Sub-basin (eastern extension)
- Indicative boundary of the SREBA
- Beetaloo Biophysical Study Area
- Indicative boundary of the Beetaloo Water Study Area
- NT Portions

- NT Parks and Reserves
- Major Towns
- Major Aboriginal Community
- Minor Town
- Locality
- Road house

- Railway
- Gas Pipelines
- National Highway
- Other Highway
- Major Drainage

- Collool Dolostone
- Jinduckin Formation
- Anthony Lagoon Formation
- Kalkarindji Suite volcanics (basalt)
- Gum Ridge Formation
- Montejinni Limestone
- Tindall Limestone