

# WATER



## Spatial Gateway

### INTRODUCTION

Water Resources Division administers the *Water Act*. The Act provides for the investigation, allocation, use, control, protection and management of water resources.

The Division other functions includes:

- surface water and groundwater monitoring
- assessment of water resource development potential
- flood risk assessment and mapping
- water bore drilling and test pumping
- investigation and monitoring of aquatic health in major rivers and Darwin Harbour
- provision of water resource data and information to other Northern Territory Government agencies and external stakeholders.

Water Resources Division is also responsible for the development of Water Allocation Plans across the Northern Territory. Water Allocation Plans are declared under the Act to ensure that water extraction is undertaken in a sustainable and equitable manner that protects our unique environment.



**WATER RESOURCES**

**1:25,000 and  
1:50,000 scale**

- 1. Darwin Area
- 2. Holmes Jungle Area
- 3. Knuckey Lagoon
- 4. Berry Springs - Noonamah Area
- 5. Daly River Catchment
- 6. Sinkholes - Katherine Region
- 7. Springs - Mataranka Area
- 8. North East Bathurst Island
- 9. Wildman River

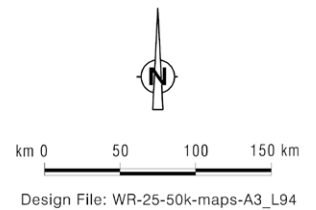
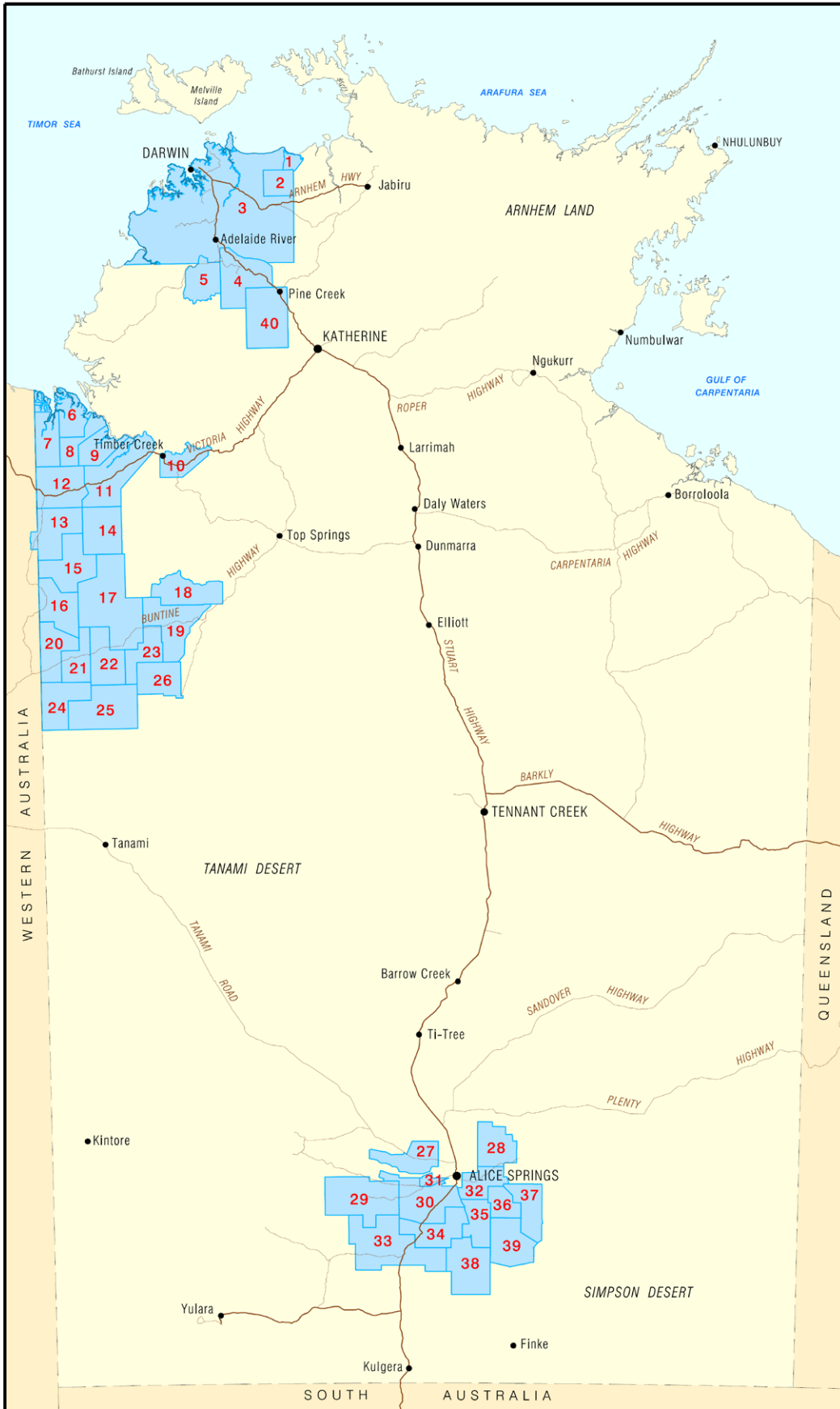


Figure 25: Water resource surveys in the Northern Territory at 1:25 000 and 1:50 000.

## WATER RESOURCES

1:100,000 scale



1. Carmor Plain
2. Wildman River
3. Darwin
4. Douglas Station
5. Tipperary Station
6. Legune Station
7. Keep River Plains
8. Spirit Hill Station
9. Bullo River Station
10. Fitzroy Station
11. Auvergne Station
12. Newry Station
13. Rosewood Station
14. Amanbidji Station
15. Waterloo Station
16. Mistake Creek
17. Limbunya Station
18. Mount Sanford Station
19. Daguragu Station
20. Kirkimbie Station
21. Bunda Station
22. Inverway Station
23. Riveren Station
24. Wallamunga Station
25. Birrindudu Station
26. Hooker Creek
27. Hamiltons Downs Station
28. The Garden Station
29. Ntaria Station
30. Owen Springs Station
31. Iwupataka (Jay Creek)
32. Undoolya Station
33. Henbury Station
34. Orange Creek Station
35. Deep Well Station
36. Ltyentye Apurte (Santa Teresa)
37. Todd River Station
38. Maryvale Station
39. Allambi Station
40. Jindare and Claravale Stations

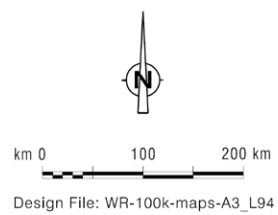
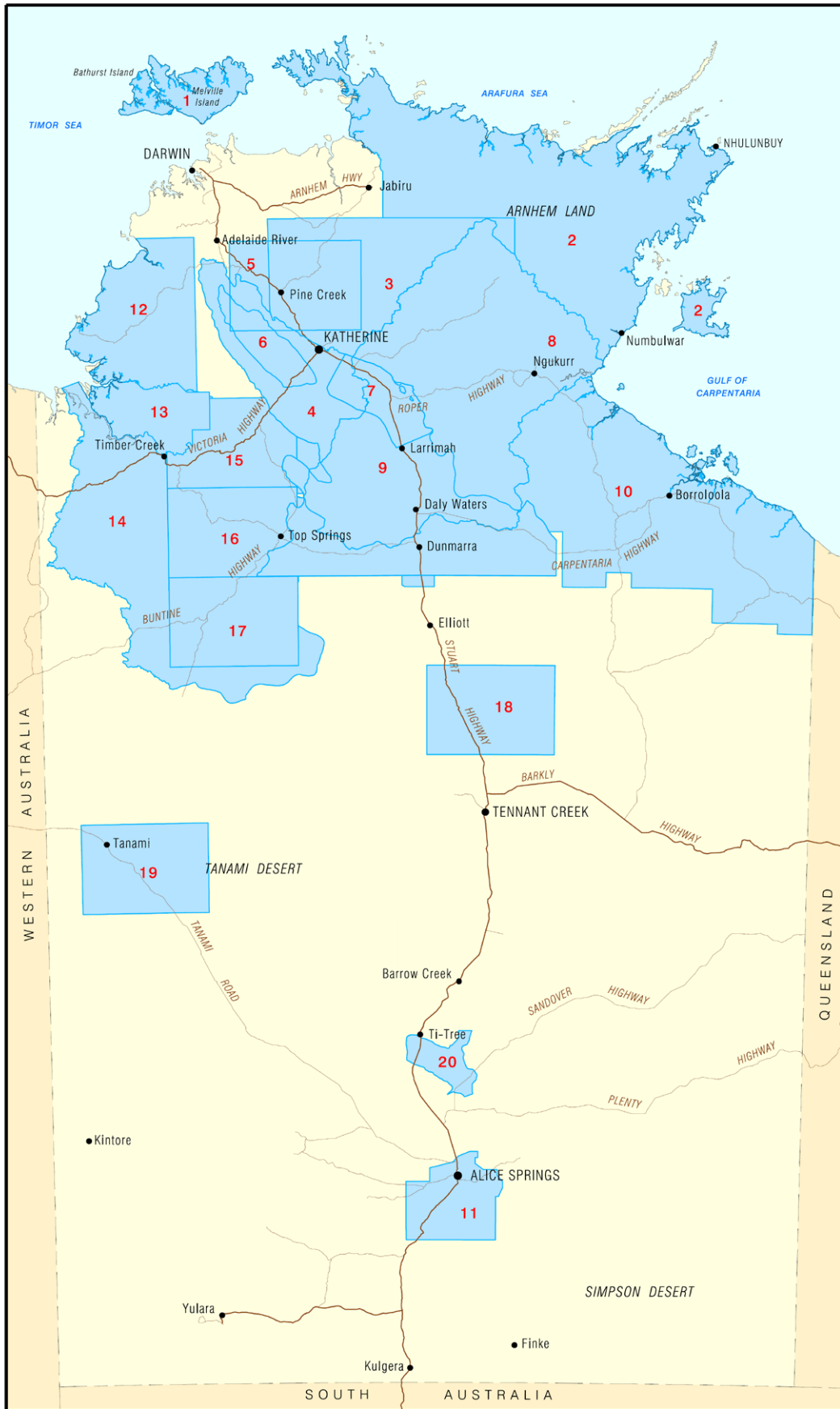


Figure 26: Water resource surveys in the Northern Territory at 1:100 000.

# WATER RESOURCES

1:250,000 scale



- 1. Tiwi Islands
- 2. Arnhem Land
- 3. Katherine Region and SW Arnhem Land
- 4. Daly Basin Aquifers
- 5. Pine Creek
- 6. Ooloo Aquifer
- 7. Tindall Aquifer at Mataranka
- 8. Roper River Catchment
- 9. Sturt Plateau
- 10. Gulf Water Study
- 11. Alice Springs Groundwater
- 12. Wadey and Nauyiu
- 13. Bradshaw Station
- 14. Victoria River Catchment
- 15. Delamere
- 16. Victoria River Downs
- 17. Wave Hill
- 18. Helen Springs
- 19. Tanami Mining Region
- 20. Ti Tree Basin Aquifer

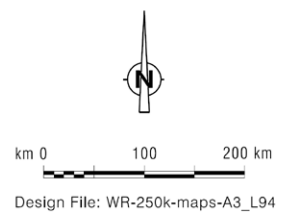
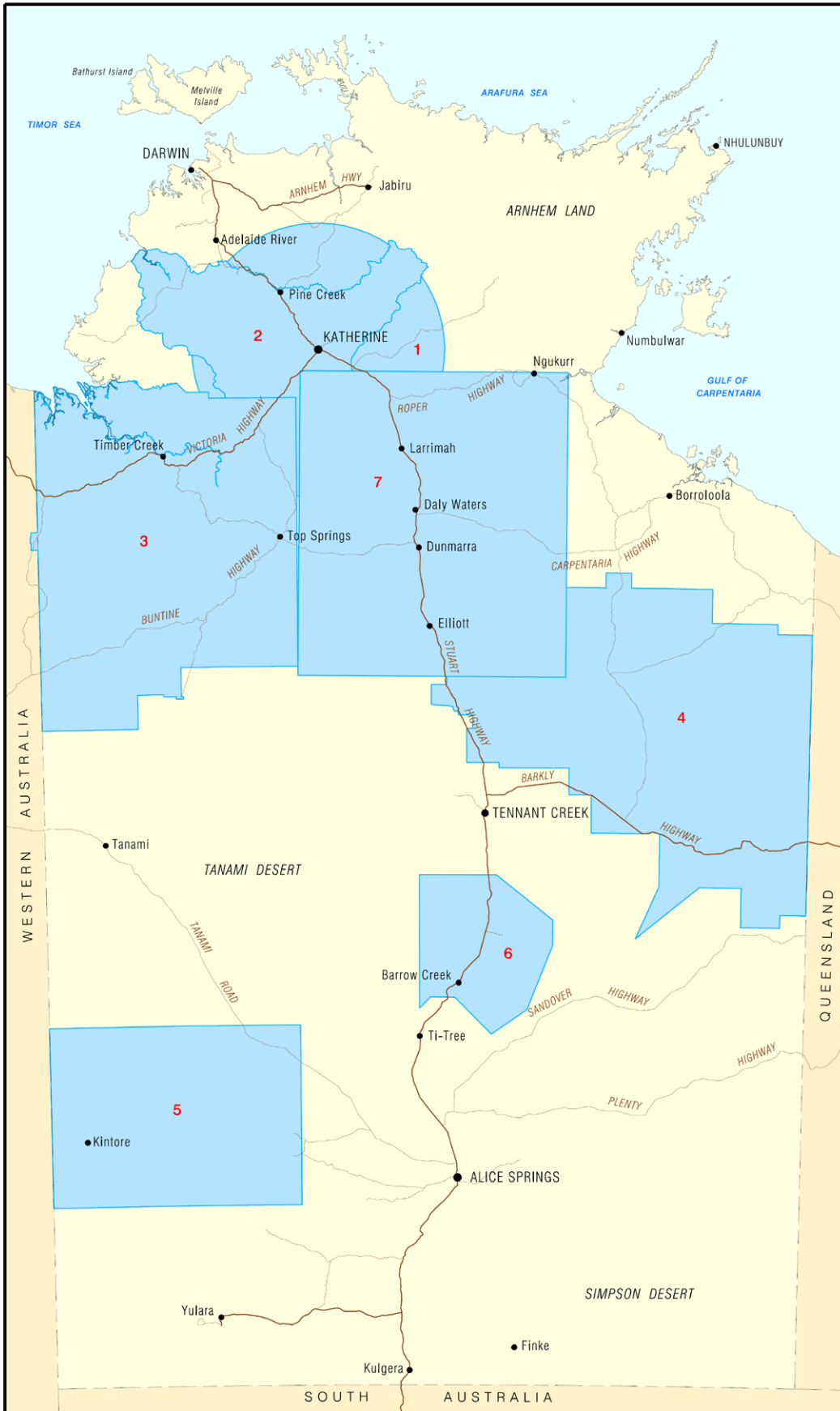


Figure 27: Water resource surveys in the Northern Territory at 1:250 000.

## WATER RESOURCES

1:500,000 to  
1:700,000 scale

1. 150 KM of Katherine
2. Daly River Catchment
3. Victoria River District
4. Barkly and Gulf Region
5. Yuendumu - Papunya - Kintore Region (Western Water Study)
6. Western Davenport Water Control District
7. Groundwater Beetaloo Sub-Basin



km 0 100 200

Design File: WR-500k-maps-A3\_L94

Figure 28: Water resource surveys in the Northern Territory at 1:500 000 to 1:700 000.

## WATER RESOURCES

1:1,000,000 to  
1:2,000,000 scale

1. Northern Territory Dryland Salinity Hazard Risks
2. Northern Territory Groundwater - Aquifer Types
3. Northern Territory Springs
4. Stuart Highway and Railway Corridor - S.A Border to Tennant Creek - Water Prospect
5. Great Artesian Basin
6. Great Artesian Basin 2013
7. Sinkholes of the Northern Territory

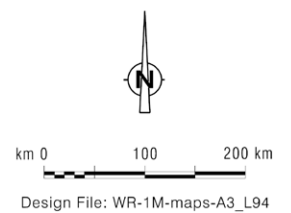
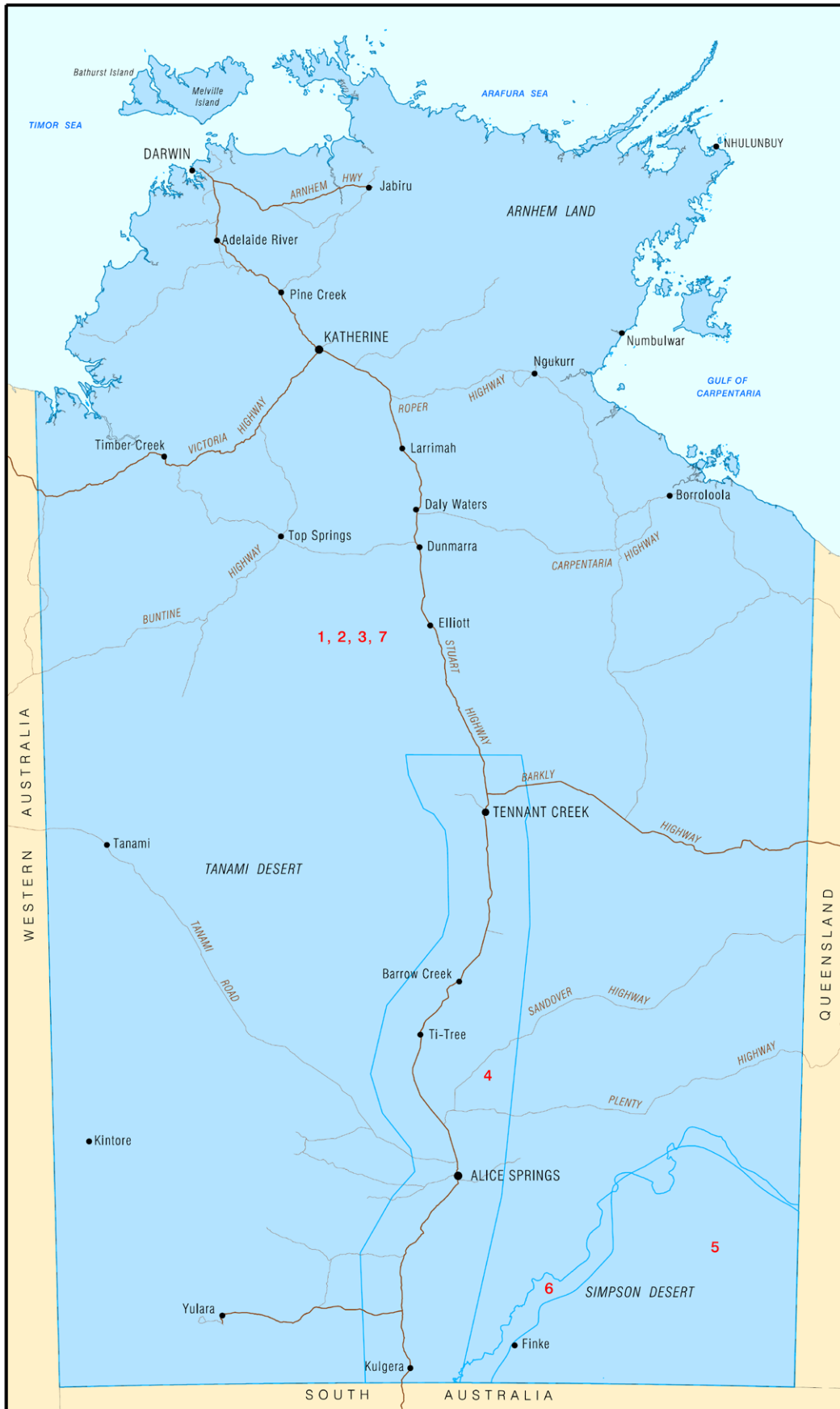


Figure 29: Water resource surveys in the Northern Territory at 1:1 000 000 and 1:2 000 000.




## HYDROGEOLOGICAL INFORMATION

Hydrogeological surveys range from small to large scale surveys, depending on the purpose of the survey. These surveys are often accompanied by drilling operations where measurement of the groundwater flow, water level and chemical composition are taken. A small scale hydrogeological survey (1:500 000 to 1:1 000 000) compiled hydrogeological information in regions that have been little studied, for the purpose of an overall appraisal of the water bearing properties of the rocks and the quality of the groundwater. A medium scale hydrogeological survey (1:100 000 to 1:200 000) compiled hydrogeological information where water bearing zones are mapped. Further studies are done to understand the water bearing properties of rocks; the quality and the regime of the groundwater; and the geological connection between groundwater and surface water activity. Large scale hydrogeological survey (1:50 000 and greater) are conducted to solve specific problems. Such as trying to understand and quantify the groundwater reserves in the identified aquifers.

In the Northern Territory, hydrogeological surveys are often done for pastoral properties to provide information on the groundwater and surface water development options. Technical reports and hydrogeological maps completes the hydrogeological survey. The location of the hydrogeological surveys at various scales are shown in [Figures 25 to 29](#).

Technical Detail	
Source	Water Resources Division
Coverage	Northern Territory
Currency	1989 to 2016
Data scale	1:25 000 to 1:2 000 000
Coordinates	GDA94, Geographic (decimal degrees)
Format	ESRI Shapefile, ESRI File Geodatabase and Oracle Spatial
Contact	Des Yin Foo
Contact phone	08 8999 3615

*Water Resources 1:25 000 and 1:50 000 surveys listing - see [figure 25](#) for map reference number.*

MAP REF	SURVEY NAME	CODE	SCALE	YEAR	REPORT	DATA
1	Groundwater Resources of the Darwin Area	DWN_25	25 000	2002		
2	Water Resources of Holmes Jungle Area	HOLMJ_25	25 000	2005		
3	Knuckey Lagoon Groundwater	KNUCK_25	25 000	2005		
4	Groundwater Resources of the Berry Springs-Noonamah Area	BERRY_50	50 000	1995		
5	Daly River Catchment – Top End Waterways Project	DALYCATCH_50	50 000	1998		
6	Sinkholes of the Katherine Region	KSINK_50	50 000	2001		
7	Springs of the Mataranka Area	MATAR_50	50 000	2004		
8	Bio-Physical Resources of North East Bathurst Island	BATHU_25	25 000	2015		
9	Water Resources of the Wildman River area	WILDR_25	25 000	2016		



Water Resources 1:100 000 surveys listing - see [figure 26](#) for map reference number.











MAP REF	SURVEY NAME	CODE	SCALE	YEAR	REPORT	DATA
1	Water Availability Map Carmor Plain	CARMO_100	100 000	2005		
2	Water Resources of Wildman River (water availability)	WILDR_100	100 000	2005		
3	Hydrogeology of Darwin	DWN_100	100 000	2002		
4	Water Resources of Douglas Station	DOUGL_100	100 000	1995		
5	Water Resources of Tipperary Station	TIPRY_100	100 000	2010		
6	Water Resources of Legune Station	LEGUN_100	100 000	1995		
7	Water Resources of Keep River Plain	KEEPR_100	100 000	1994		
8	Water Resources of Spirit Hill Station	SPRTH_100	100 000	1995		
9	Water Resources of Bullo River Station	BULLO_100	100 000	1995		
10	Water Resources of Fitzroy Station	FTZRY_100	100 000	1997		
11	Water Resources of Auvergne Station	AUVER_100	100 000	1994		
12	Water Resources of Newry Station	NEWRY_100	100 000	1995		
13	Water Resources of Rosewood Station	ROSWD_100	100 000	1994		
14	Water Resources of Amanbidji Station	AMANB_100	100 000	1994		
15	Water Resources Survey of Waterloo Station	WATER_100	100 000	1994		
16	Water resources of Mistake Creek Station	MSTCK_100	100 000	1997		
17	Water Resources of Limbunya Station	LIMBU_100	100 000	1997		
18	Water Resources of Mount Sanford Station	MTSAN_100	100 000	1997		
19	Water Resources of Daguragu Station	DAGUR_100	100 000	1997		
20	Water Resources of Kirkimbie Station and N.T. Portion 3540	KIRKI_100	100 000	1996		
21	Water Resources of Bunda Station	BUNDA_100	100 000	1996		
22	Water Resources of Inverway Station	INVER_100	100 000	1996		
23	Water Resources of Riveren Station	RIVER_100	100 000	1996		
24	Water Resources of Wallamunga Station	WALLA_100	100 000	1996		
25	Water Resources of Birrindudu Station	BIRRU_100	100 000	1996		

MAP REF	SURVEY NAME	CODE	SCALE	YEAR	REPORT	DATA
26	Water Resources Development of Hooker Creek Station and Lajamanu Community	HOOKC_100	100 000	1996		
27	Water Resources of Hamilton Downs Station	HAMIL_100	100 000	2000		
28	Water Resources of the Garden Station	GARDE_100	100 000	1996		
29	Water Resources of Ntaria Station	NTARI_100	100 000	1996		
30	Water resources of Owen Springs Station	OWENS_100	100 000	1996		
31	Water Resources of Iwupataka Station	IWUPA_100	100 000	1996		
32	Water Resources of Undoolya Station	UNDOL_100	100 000	1996		
33	Water Resources of Henbury Station	HENBR_100	100 000	1996		
34	Water Resources of Orange Creek Station	ORGCK_100	100 000	1996		
35	Water Resources of Deep Well Station	DEEPW_100	100 00	1996		
36	Water Resources of Santa Teresa	STERE_100	100 000	1996		
37	Water Resources of Todd River Station	TODDR_100	100 000	1996		
38	Water Resources of Maryvale Station	MARYV_100	100 000	2000		
39	Water Resources Assessment Project Alice Springs Region - Allambi Station	ALAMB_100	100 000	1998		
40	Water Resources of Jindare and Claravale Stations	JINDR_100	100 000	2003		

Water Resources 1:250 000 surveys listing - see [figure 27](#) for map reference number.

MAP REF	SURVEY NAME	CODE	SCALE	YEAR	REPORT	DATA
1	Water Resources of Tiwi Islands	TIWI_250	250 000	2003		
2	Water Resources of Arnhem land	ARNHM_250	250 000	1999		
3	Water Resources of the Katherine Region and South West Arnhemland	KATHA_250	250 000	2001		
4	Daly Basin Aquifers	DBAQ_250	250 000	2011		
5	Hydrogeology of Pine Creek	PINEC_250	250 000	1989		
6	Ooloo Aquifer	OLAQ_250	250 000	2011		
7	Hydrogeology Map of the Tindall Aquifer at Mataranka	MATAR_250	250 000	2013		
8	Roper River Catchment	ROPERCATCH_250	250 000	2001		
9	Hydrogeology of the Sturt Plateau - Explanatory Notes for 1:250 000 Scale Map	STURT_250	250 000	2000		
10	Gulf Water Study, Northern Territory	GULF_250	250 000	2009		
11	Alice Springs Groundwater	ALICE_250	250 000	2009		
12	Water Resources of Wadeye (Port Keats) and Naiyu (Daly River) Region	WADEY_250	250 000	2003		
13	Water Resources of Bradshaw Station	BRADS_250	250 000	1995		
14	Victoria River Catchment - Top End Waterways Project	VICCATCH_250	250 000	2004		
15	Hydrogeology of Delamere	DELAM_250	250 000	1996		
16	Victoria River Downs Hydrogeology	VRDWN_250	250 000	1997		
17	Hydrogeological map of Wave Hill	WAVEH_250	250 000	1995		
18	Hydrogeology of Helen Springs	HELEN_250	250 000	1992		
19	Hydrogeology of the Granites-Tanami Mining Region	GRANT_250	250 000	1990		
20	Ti-Tree Basin Aquifer	TTBAQ_250	250 000	2010		

**Water Resources 1:500 000 and 1:700 000 surveys listing - see [figure 28](#) for map reference number.**

MAP REF	SURVEY NAME	CODE	SCALE	YEAR	REPORT	DATA
1	Water Resources Availability within 150 KM of Katherine	KATH_500	500 000	2002		
2	Water Resources of Daly River Catchment	DALY_500	500 000	2002		
3	Water Resources of the Victoria River District	WVRD_500	500 000	1998		
4	Water Resources of Barkly and Gulf Region	BARKY_500	500 000	1997		
5	Hydrogeology of the Yuendumu_Papunya_Kintore Region	WWS_500	500 000	1998		
6	Groundwater in the Western Davenport Water Control District	WDAV_500	500 000	2002		
7	Groundwater overlaying the Beetaloo sub-basin	BEET_700	700 000	2018		

**Water Resources 1:1 000 000 and 1:2 000 000 surveys listing - see [figure 29](#) for map reference number.**

MAP REF	SURVEY NAME	CODE	SCALE	YEAR	REPORT	DATA
1	Northern Territory Dryland Salinity Hazards Risks	NTGW_2M	2 000 000	1994		
2	Northern Territory Aquifers	NTAQ_2M	2 000 000	2013		
3	Springs, Northern Territory	NTSPR_2M	2 000 000	2013		
4	Stuart Highway and Railway Corridor Water Prospect	SHRC_1M	1 000 000	2002		
5	Hydrogeology of the Great Artesian Basin	GABAS_1M	1 000 000	1996		
6	Hydrogeological map of the Northern Territory Great Artesian Basin	GAB_1M	1 000 000	2013		
7	Sinkholes of the Northern Territory	NTSINK_2M	2 000 000	2016		

## GROUNDWATER BORE DATA

Groundwater bore information collected from registered private bores and Water Resources Division own groundwater investigation and monitoring bores since 1964. Water level and water quality data collected from selected bores in the Water Resources Division groundwater monitoring network is also included. There are now 38 606 bore records in the Northern Territory.

Technical Detail	
Source	Water Resources Division
Coverage	Northern Territory
Currency	1964 to 2018
Coordinates	GDA94, Geographic (decimal degrees)
Format	ESRI Shapefile and Hydstra database
Contact	Aidan Smith
Contact phone	08 8999 4522

## WATER DATA PORTAL

The Water Data Portal provides access to the latest flood monitoring sites, river heights and rainfall reading. It is also a data warehouse for rivers, rainfall and bores information collected and generated by Water Resources Division. Access the water data portal [here](#)

Technical Detail	
Source	Water Resources Division
Coverage	Northern Territory
Currency	1964 to 2018
Coordinates	GDA94, Geographic (decimal degrees)
Format	SQL server database
Contact	Aidan Smith
Contact Phone	08 8999 4522

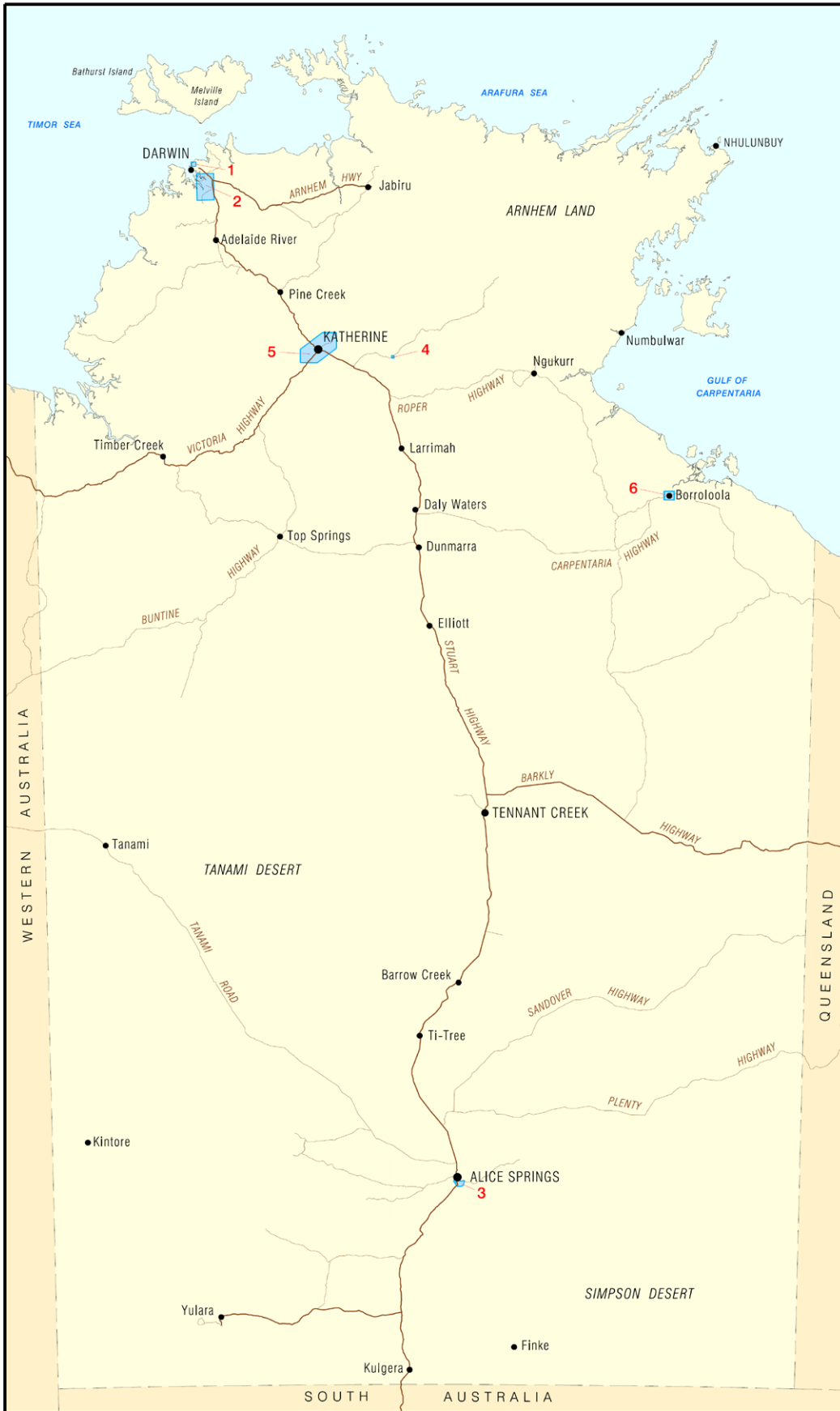
## WATER INUNDATION INFORMATION

Floodplain maps have been developed for populated areas which lie along river reaches that have the potential to flood. Floodplain maps show the depth and extent of inundation caused when rivers rise above their banks. Floodplain modelling and mapping has been completed for several areas in the Northern Territory.

Storm surge inundation maps have been developed in several areas in the Northern Territory. Storm surge, which is an onshore inundation resulting from strong onshore winds associated with a tropical cyclone can be experienced along the Northern Territory coastline.

## WATER INUNDATION Flood Studies

1. Rapid Creek
2. Elizabeth and Blackmore River Catchments
3. Alice Springs
4. Beswick (Wugularr)
5. Katherine River
6. Borroloola



km 0 100 200 km










Design File: WI-Flood-Studies-A3\_L94

Figure 30: Floodplain studies in the Northern Territory.

## FLOOD STUDIES

Detailed flood studies, mapping areas of inundation have been completed for Alice Springs, Elizabeth and Blackmore Rivers, Rapid Creek, Katherine River and Borroloola. Floodplain maps created from these flood studies show the depth and extent of inundation caused when rivers rise above their banks for current climatic conditions. The location of the floodplain studies are shown in [Figure 30](#).

Technical Detail	
Source	Water Resources Division
Coverage	Northern Territory
Currency	2000 to 2015
Data scale	1:5 000 to 1:10 000
Coordinates	GDA94, Geographic (decimal degrees)
Format	ESRI Shapefile, ESRI File Geodatabase, Oracle Spatial and PDF maps
Contact	Des Yin Foo
Contact phone	08 8999 3615
Website	<a href="#">Link</a>

MAP REF	SURVEY NAME	CODE	SCALE	YEAR	REPORT	DATA
1	Rapid Creek flood study	RPDCK_10	10 000	2015		
2	Elizabeth and Blackmore River catchments flood study	ELBL_10	10 000	2014		
3	Alice Springs flood investigation and floodplain mapping study, Northern Territory	ALICE_10	10 000	2015		
4	Flood investigation of the communities of Beswick, Mataranka, Djilkminggan and Elsey	WUGUL_5	5 000	2001		
5	Katherine River flood study	KATHR_5	5 000	2000		
6	Borroloola floodplain mapping study	BORRO_20	20 000	2011		

## WATER INUNDATION Storm Surge Studies

- 1. Darwin
- 2. Gulf of Carpentaria
- 3. Top End Communities

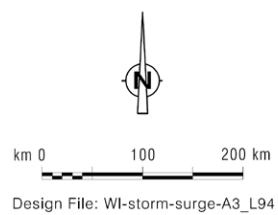
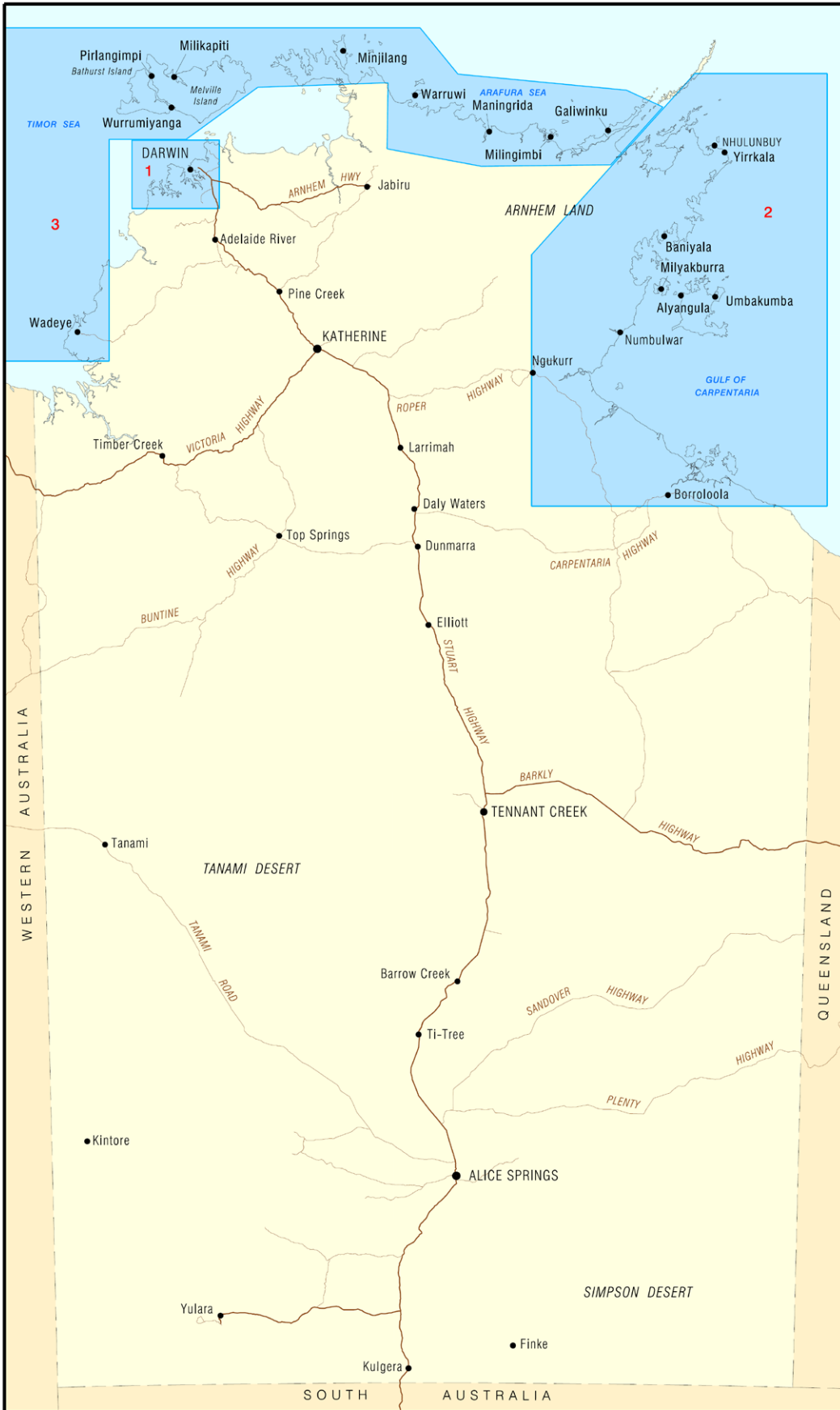








Figure 31: Storm surge studies in the Northern Territory.



## STORM SURGE STUDIES

Storm surge is an onshore inundation resulting from strong winds associated with a tropical cyclone. A tropical cyclone storm tide is the combined effects of normal tide (low to high astronomical tide) plus storm surge plus wave setup. Storm surge inundation maps have been developed for areas in the Greater Darwin area, communities in the Gulf of Carpentaria and Top End regions. These maps are based on the projected mean sea level by year 2100 for hazards *Return Periods* (or *Average Recurrence Intervals ARIs*). This information is used for land use planning. The location of the storm surge studies are shown in [Figure 31](#).




Technical Detail	
Source	Water Resources Division
Coverage	Northern Territory
Currency	2010 to 2017
Data scale	1:2 500 to 1:25 000
Coordinates	GDA94, Geographic (decimal degrees)
Format	ESRI Shapefile, ESRI File Geodatabase, Oracle Spatial and PDF maps
Contact	Des Yin Foo
Contact phone	08 8999 3615
Website	<a href="#">Link</a>

MAP REF	SURVEY NAME	CODE	SCALE	YEAR	REPORT	DATA
1	Darwin storm tide mapping study	DWN_25	25 000	2010		
2	Gulf of Carpentaria storm tide and inundation study	GULF_5	5 000	2013		
3	Top End communities storm surge mapping	TEC_2500	2500	2017		

## FLOOD WARNING MAPS

Flooding warning maps showing probable and possible areas of flooding for Katherine town and rural areas have been developed, to show the likelihood of flood inundation corresponding to the flood warning advices in Katherine.

Technical Detail	
Source	Water Resources Division
Coverage	Katherine
Currency	2012
Format	PDF maps
Contact	Des Yin Foo
Contact phone	08 8999 3615
Website	<a href="#">Link</a>

MAP NAME	MAP DATE	MAP
Major Flood Warning - Katherine	October 2012	
Moderate Flood Warning - Katherine and Major Flood Warning - Gorge Road	October 2012	
Minor Flood Warning - Katherine and Moderate Flood Warning - Gorge Road	October 2012	

## WATER CONTROL DISTRICTS

- 1. Darwin Rural
- 2. Daly Roper Beetaloo
- 3. Tennant Creek
- 4. Western Davenport
- 5. Ti-Tree
- 6. Alice Springs
- 7. Great Artesian Basin
- 8. Gove

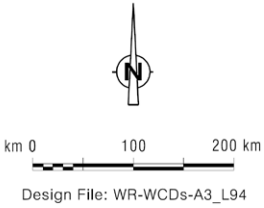
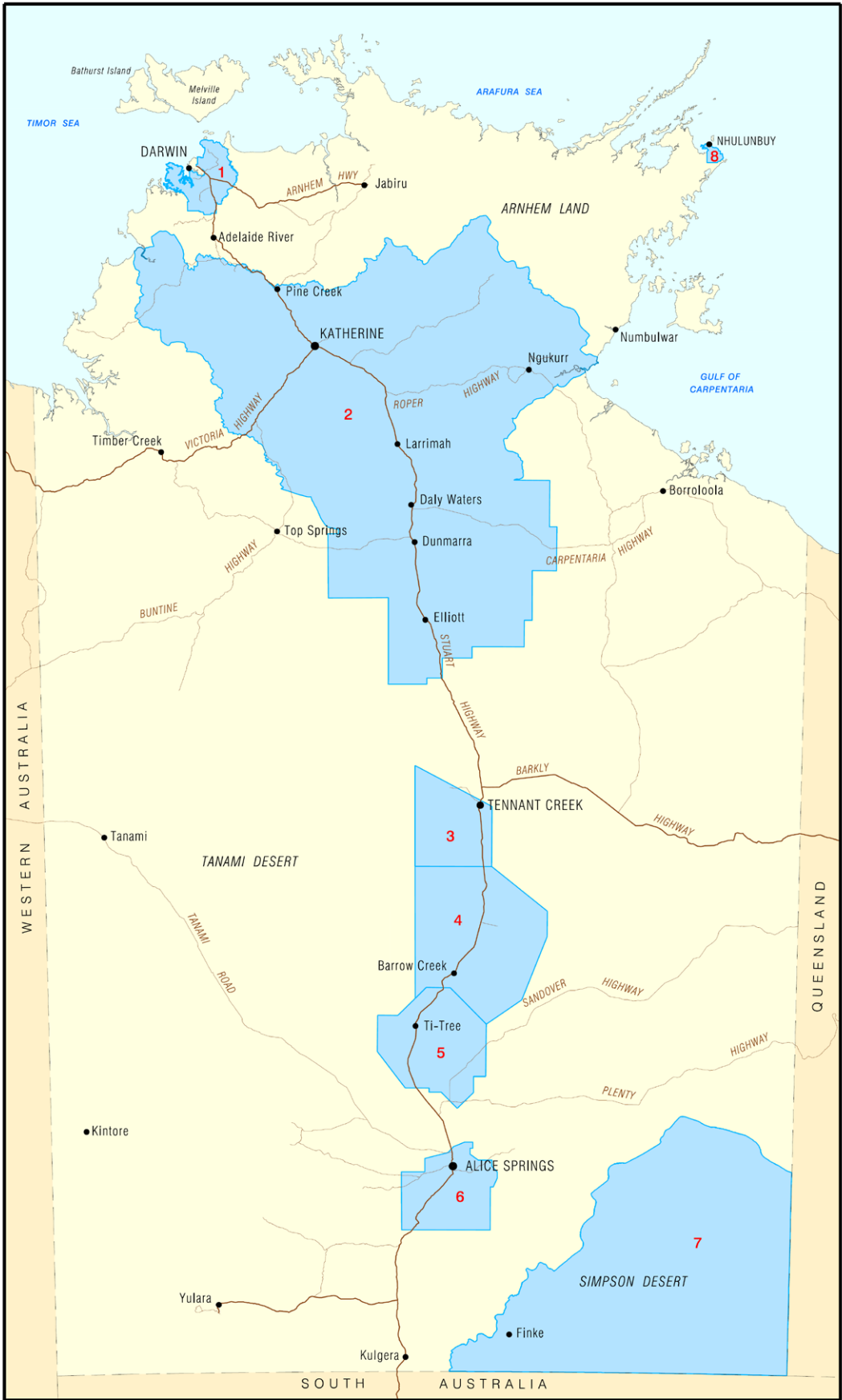


Figure 32: Declared Water Control Districts in the Northern Territory.

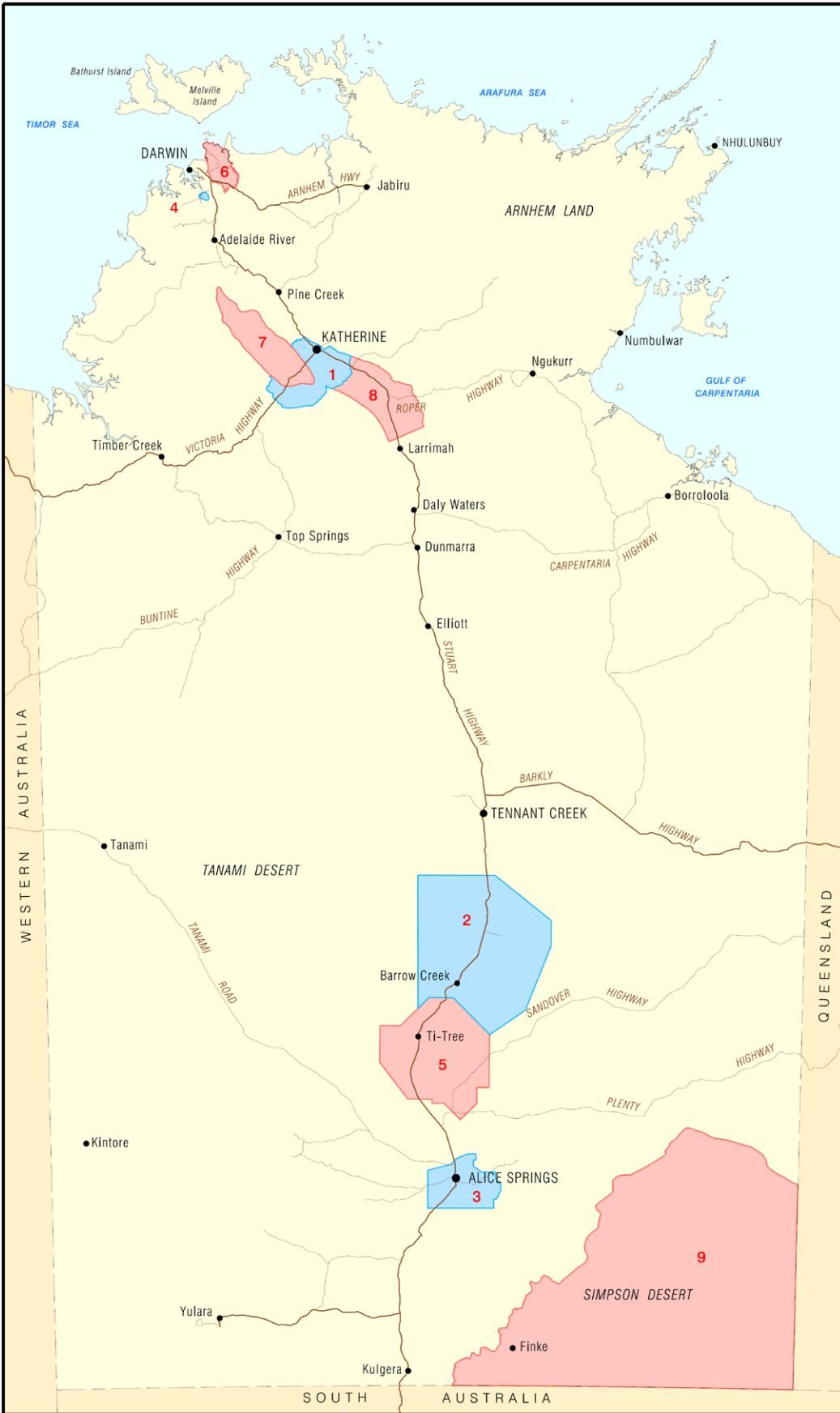
# WATER ALLOCATION PLANNING AREAS

## DECLARED

- 1. Katherine 2009 - 2019
- 2. Western Davenport 2011 - 2021
- 3. Alice Springs 2016 - 2026
- 4. Berry Springs 2016 - 2026

## IN PROGRESS

- 5. Ti-Tree
- 6. Howard
- 7. Ooloo Dolostone Aquifer
- 8. Mataranka
- 9. Great Artesian Basin



km 0 100 200 km













Design File: WR-Allocation-Areas-A3\_L94

Figure 33: Water Allocation Planning areas in the Northern Territory.

## WATER CONTROL DISTRICTS AND WATER ALLOCATION PLANS - WATER MANAGEMENT AREAS

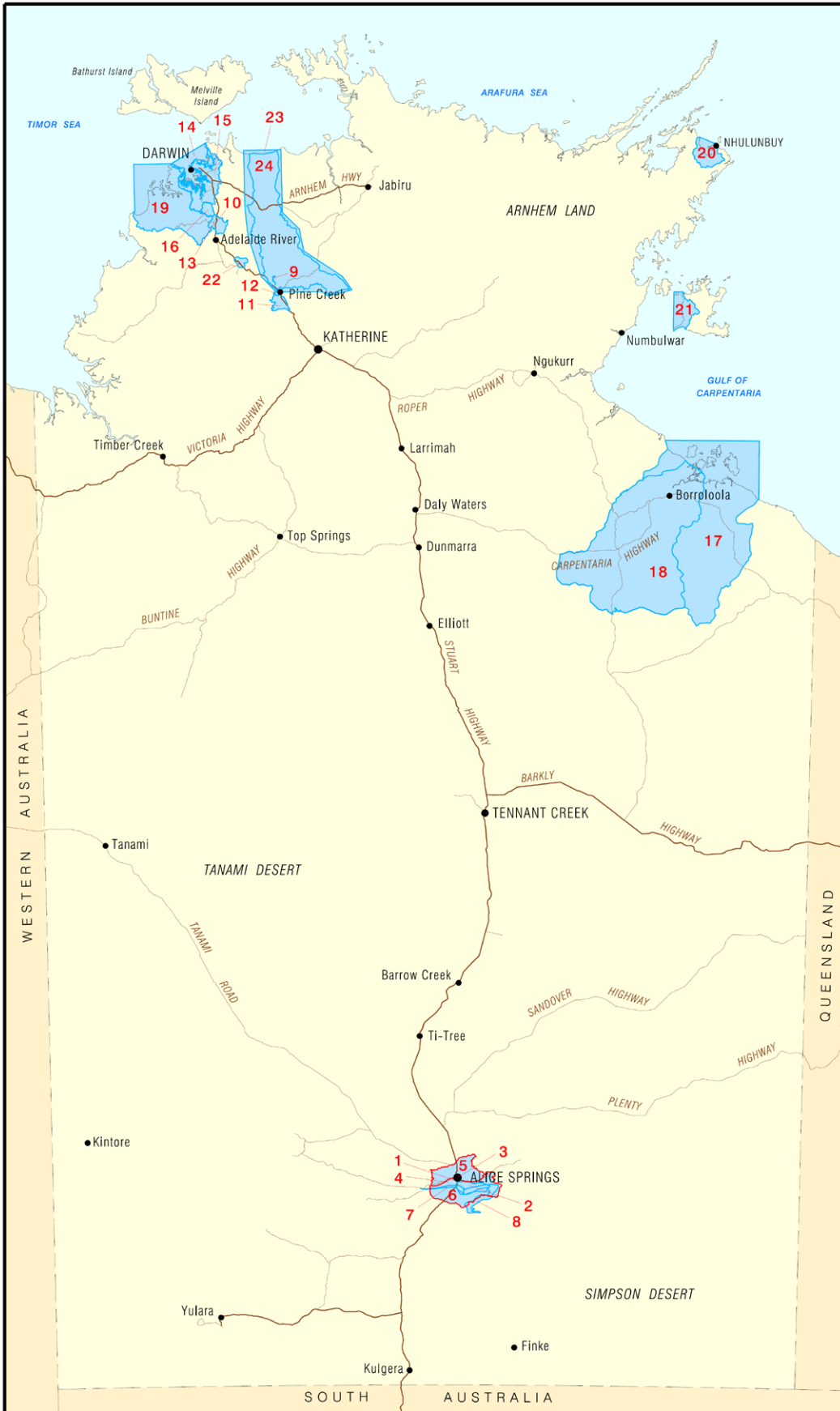
The *Water Act* allows for effective water resource management through the development and implementation of Water Allocation Plans which cover specific regions within designated Water Control Districts. Water Control Districts are areas where there is a need for improved management of water resources to avoid over using groundwater reserves, river flows or wetlands. Water Allocation Plans aim to protect the environment and equitably share the available water between users, to ensure the long term sustainability of the water resource. The locations of the Water Control Districts are shown in [Figure 32](#) and Water Allocation Plans in [Figure 33](#).

<b>Source</b>	Water Resources Division
<b>Coverage</b>	Northern Territory
<b>Currency</b>	2009 to 2018
<b>Coordinates</b>	GDA94, Geographic (decimal degrees)
<b>Format</b>	ESRI Shapefile, ESRI File Geodatabase, Oracle Spatial and PDF maps
<b>Contact</b>	Tim Bond
<b>Contact phone</b>	08 8999 4444
<b>WCD website</b>	<a href="#">Link</a>
<b>WAP website</b>	<a href="#">Link</a>

WCD MAP REF	WCD NAME	WCD MAP	WAP MAP REF	WAP - DECLARED	WAP REPORT	WAP MAP REF	WAP - IN PROGRESS
1	Darwin Rural		4	Berry Springs Water Allocation Plan 2016 - 2026			
						6	Howard Water Allocation Plan
2	Daly Roper Beetaloo		1	Katherine Tindall Limestone Aquifer Water Allocation Plan 2016 to 2019			Katherine Tindall Limestone Aquifer Water Allocation Plan - new plan under development
						7	Ooloo Dolostone Aquifer Water Allocation Plan
						8	Mataranka Tindall Limestone Aquifer Water Allocation Plan
3	Tenant Creek						
4	Western Davenport		2	Western Davenport Water Control District Water Allocation Plan - 2011 to 2021			Under review - plan was reviewed in 2016, resulted in the draft Western Davenport Water Allocation Plan
5	Ti-Tree					5	Ti-Tree Water Allocation Plan - new plan under development
6	Alice Springs		3	Alice Springs Water Allocation Plan 2016 to 2026			
7	Great Artesian Basin					9	Great Artesian Basin Water Allocation Plan 2013 - 2023
8	Gove						

## WATER QUALITY AND BENEFICIAL USES DECLARED AREAS

### Map 1 of 2



1. Alice Springs Water Control District (WCD) - Alluvial Aquifer - Inner Farm Basin
2. Alice Springs WCD - Alluvial Aquifer - Outer Farm Basin
3. Alice Springs WCD - Alluvial Aquifer - Town Basin
4. Alice Springs WCD - Alluvial Aquifer - Wannardi Basin
5. Alice Springs WCD - Surface Water - Upper Alice Springs Catchment Area
6. Alice Springs WCD - Surface Water - Lower Alice Springs Catchment Area
7. Alice Springs WCD - Amadeus Basin - Roe Creek
8. Alice Springs WCD - Amadeus Basin - Rocky Hill/Ooraminna
9. McKinlay River
10. Coomalie Creek Catchment
11. Copperfield Creek - Lower section
12. Copperfield Creek - Upper section
13. Crater Lake
14. Darwin Harbour Region - High water mark
15. Darwin Harbour Region - Surface water
16. Darwin River Dam and Catchment
17. McArthur River Area
18. McArthur River Catchment Area
19. Fog Bay Area
20. Gove Area
21. Groote Eylandt Area
22. Howley Creek
23. Mary River - Groundwater
24. Mary River - Surface water

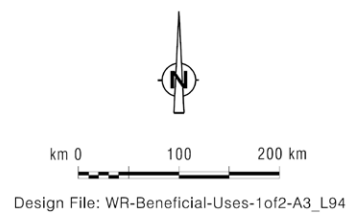
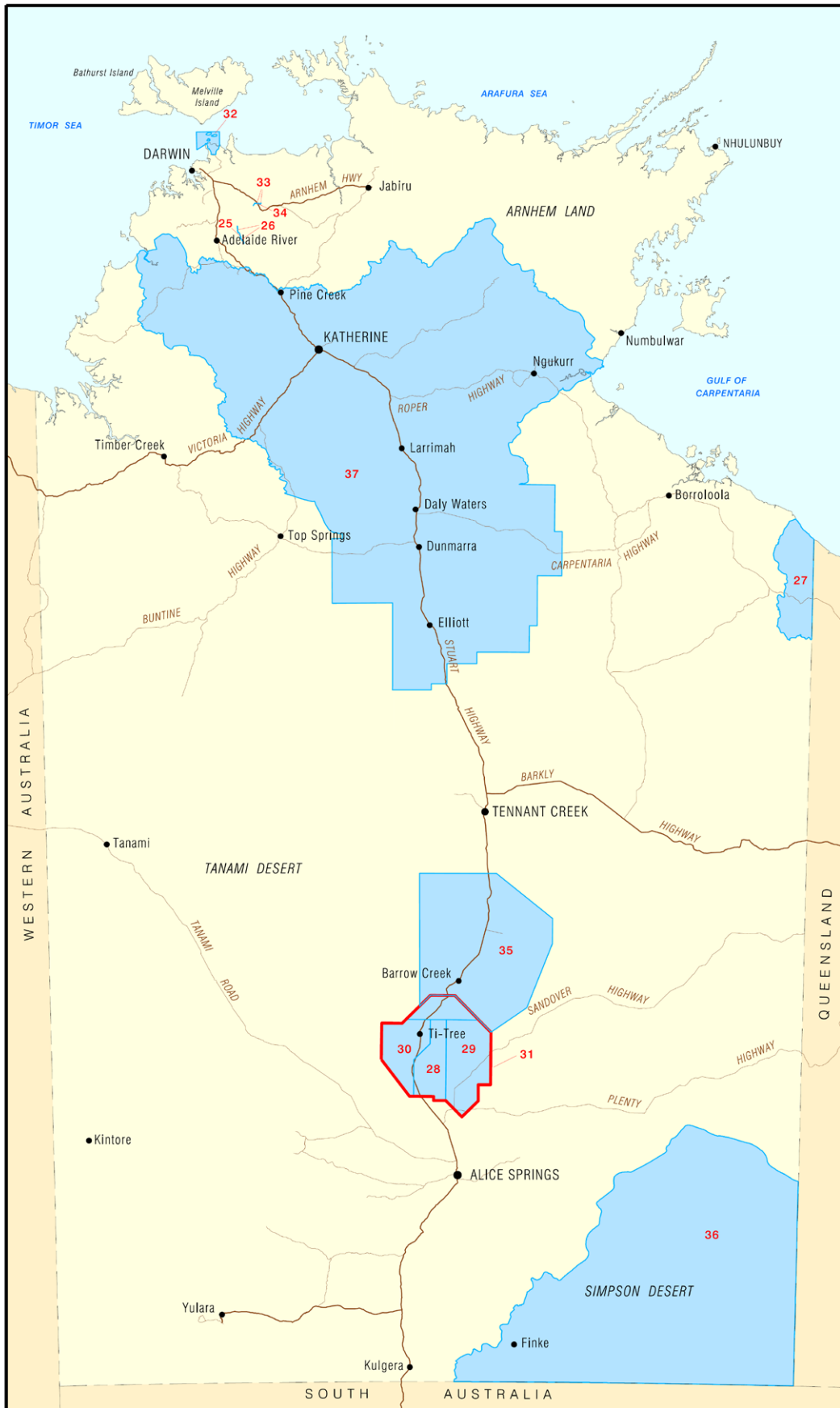


Figure 34: Water Quality and Beneficial Use Declared areas in the Northern Territory (map 1 of 2).

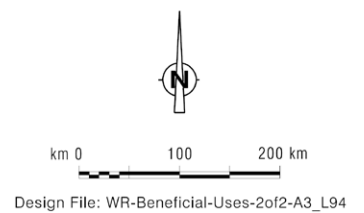


## WATER QUALITY AND BENEFICIAL USES DECLARED AREAS

### Map 2 of 2

- 25. Ryan Creek - Middle section
- 26. Ryan Creek - Upper and Lower sections
- 27. Settlement Creek
- 28. Ti-Tree WCD - Groundwater with salinity under 1000mg/L within the Central zone
- 29. Ti-Tree WCD - Groundwater with salinity under 1000mg/L within the Eastern zone
- 30. Ti-Tree WCD - Groundwater with salinity under 1000mg/L within the Western zone
- 31. Ti-Tree WCD - Surface water
- 32. Vernon Islands Area Waterways
- 33. Mount Bunday Creek - Upper and Lower sections
- 34. Mount Bunday Creek - Middle section
- 35. Western Davenport WCD
- 36. Great Artesian Basin WCD
- 37. Daly Roper Beetaloo WCD

Figure 35: Water Quality and Beneficial Use Declared areas in the Northern Territory (map 2 of 2).
















Design File: WR-Beneficial-Uses-2of2-A3\_L94

## WATER QUALITY AND BENEFICIAL USES DECLARATIONS


Water quality management in the Northern Territory is guided by the National Water Quality Management Strategy. The strategy provides a framework for developing management plans with stakeholders. A key step in developing management plans is to identify how the community value and uses a water resource. Beneficial uses are the particular values or uses of the water resource which contribute to public or private benefit. These values are then used to set water quality targets. There are seven beneficial use categories used to describe values for both groundwater and surface water. Throughout the Northern Territory beneficial uses or values have been set for major aquifers and river catchments. The location of declared beneficial use areas are shown in [Figure 34](#) and [Figure 35](#).

<b>Source</b>	Water Resources Division
<b>Coverage</b>	Northern Territory
<b>Currency</b>	1992 to 2018
<b>Coordinates</b>	GDA94, Geographic (decimal degrees)
<b>Format</b>	ESRI Shapefile, ESRI File Geodatabase, Oracle Spatial, KML and PDF maps
<b>Contact</b>	Tim Bond
<b>Contact phone</b>	08 8999 4444
<b>Website</b>	<a href="#">Link</a>

MAP REF	DECLARATION TITLE	MANAGEMENT AREAS	BENEFICIAL USES	MAP
1	Declaration of Beneficial Uses and Objectives Alice Springs Water Control District	Alluvial Aquifer - Inner Farm Basin	Environment, cultural, rural stock, domestic, agricultural and industrial	
2	Declaration of Beneficial Uses and Objectives Alice Springs Water Control District	Alluvial Aquifer - Outer Farm Basin	Environment, cultural, rural stock, domestic, agricultural and industrial	
3	Declaration of Beneficial Uses and Objectives Alice Springs Water Control District	Alluvial Aquifer - Town Basin	Environment, cultural, rural stock, domestic, agricultural and industrial	
4	Declaration of Beneficial Uses and Objectives Alice Springs Water Control District	Alluvial Aquifer - Wannardi Basin	Environment, cultural, rural stock and domestic	
5	Declaration of Beneficial Uses and Objectives Alice Springs Water Control District	Surface Water - Upper Alice Springs Catchment Area	Environment, cultural, rural stock and domestic	
6	Declaration of Beneficial Uses and Objectives Alice Springs Water Control District	Surface Water - Lower Alice Springs Catchment Area	Environment, cultural, rural stock and domestic	
7	Declaration of Beneficial Uses and Objectives Alice Springs Water Control District	Amadeus Basin - Roe Creek	Public water supply, rural stock and domestic	
8	Declaration of Beneficial Uses and Objectives Alice Springs Water Control District	Amadeus Basin - Rocky Hill / Ooraminna	Environment, cultural, public water supply, agriculture, rural stock and domestic	
9	Declaration of Water Quality Objective Mc-Kinlay River		Aquatic ecosystem protection	
10	Declaration of Beneficial Uses Coomalie Creek Catchment		Aquatic ecosystem protection, recreational water quality and aesthetics and agricultural water use	
11	Revocation of Declaration and Declaration of Beneficial Uses and Objectives of Water Copperfield Creek	Lower section	Aquatic ecosystem protection	
12	Revocation of Declaration and Declaration of Beneficial Uses and Objectives of Water Copperfield Creek	Upper section	Raw water for drinking water supply	
13	Declaration of Beneficial Use Crater Lake		Recreational water quality and aesthetics	



MAP REF	DECLARATION TITLE	MANAGEMENT AREAS	BENEFICIAL USES	MAP
14	Declaration of Beneficial Uses and Objectives Darwin Harbour Region	High Water Mark	Aquaculture, environment and cultural	
15	Declaration of Beneficial Uses and Objectives Darwin Harbour Region	Surface water	Aquaculture, environment, cultural, rural stock and domestic	
16	Declaration of Beneficial Uses and Objectives Darwin River Dam and Catchment		Public water supply	
17	Declaration of Beneficial Uses McArthur River Area		Aquatic ecosystem protection	
18	Declaration of Beneficial Uses for McArthur River Catchment Area		Environment, riparian and cultural	
19	Declaration of Beneficial Uses Fog Bay Area		Aquatic ecosystem protection	
20	Declaration of Beneficial Uses Gove Area		Aquatic ecosystem protection	
21	Declaration of Beneficial Uses Groote Eylandt Area		Aquatic ecosystem protection	
22	Revocation of Declaration and Declaration of Water Quality Objective Howley Creek		Aquatic ecosystem protection	
23	Declaration of Beneficial Uses and Objectives of Water Mary River	Groundwater	Environment, riparian and agriculture	
24	Declaration of Beneficial Uses and Objectives of Water Mary River	Surface water	Environment, riparian and cultural	
25	Revocation of Declaration and Declaration of Beneficial Uses and Objectives of Water Ryan Creek	Middle section	Stock water supply	
26	Revocation of Declaration and Declaration of Beneficial Uses and Objectives of Water Ryan Creek	Upper and Lower sections	Aquatic ecosystem protection	
27	Declaration of Beneficial Uses for Settlement Creek		Environment, riparian and cultural	
28	Declaration of Beneficial Uses and Objectives of Ti-Tree Water Control District	Groundwater with salinity under 1000 mg/L within the Central zone	Agriculture and riparian	
29	Declaration of Beneficial Uses and Objectives of Ti-Tree Water Control District	Groundwater with salinity under 1000 mg/L within the Eastern zone	Riparian	
30	Declaration of Beneficial Uses and Objectives of Ti-Tree Water Control District	Groundwater with salinity under 1000 mg/L within the Western zone	Agriculture, public water supply and riparian	
31	Declaration of Beneficial Uses and Objectives of Ti-Tree Water Control District	Surface water	Environment, riparian and cultural	
32	Declaration of Beneficial Uses and Objectives Vernon Islands Area Waterways		Environment and cultural	
33	Revocation of Declaration and Declaration of Beneficial Uses and Objectives of Water Mount Bunday Creek	Upper and Lower sections	Aquatic ecosystem protection	
34	Revocation of Declaration and Declaration of Beneficial Uses and Objectives of Water Mount Bunday Creek	Middle section	Stock water supply	

MAP REF	DECLARATION TITLE	MANAGEMENT AREAS	BENEFICIAL USES	MAP
35	Declaration of Beneficial Uses and Objectives Western Davenport Water Control District	Surface water and Groundwater	Agriculture, aquaculture, public water supply, environment, cultural, industry and rural stock and domestic	
36	Declaration of Beneficial Uses and Objectives Great Artesian Basin Water Control District	Surface water and Groundwater	Agriculture, aquaculture, public water supply, environment, cultural, industry and rural stock and domestic	
37	Revocation of Declarations and Declaration of Beneficial Uses and Objectives of Daly Roper Beetaloo Water Control District	Surface water and Groundwater	Agriculture, public water supply, environment, cultural, industry and rural stock and domestic	

## WATER QUALITY INFORMATION

The Aquatic Health Unit is responsible for marine, estuarine and freshwater water quality monitoring and interpretation in Darwin Harbour and selected catchments in the Top End of the Northern Territory.

Aquatic Health Unit collects data for routine water quality monitoring and discrete projects. This data is used to create spatial layers in conjunction with broader water quality and aquatic biology monitoring programs. Water quality mapping products include spatially interpolated data layers for water quality parameters (physico-chemical, nutrients and chlorophyll-a), point data and broader catchment layers associated with specific monitoring projects.

Technical Detail	
Source	Water Resources Division
Coverage	Northern Territory - selected areas
Currency	2018
Coordinates	GDA94, Geographic (decimal degrees)
Format	ESRI Shapefile and Hydstra Database
Contact	Simon Townsend
Contact phone	08) 8999 3413