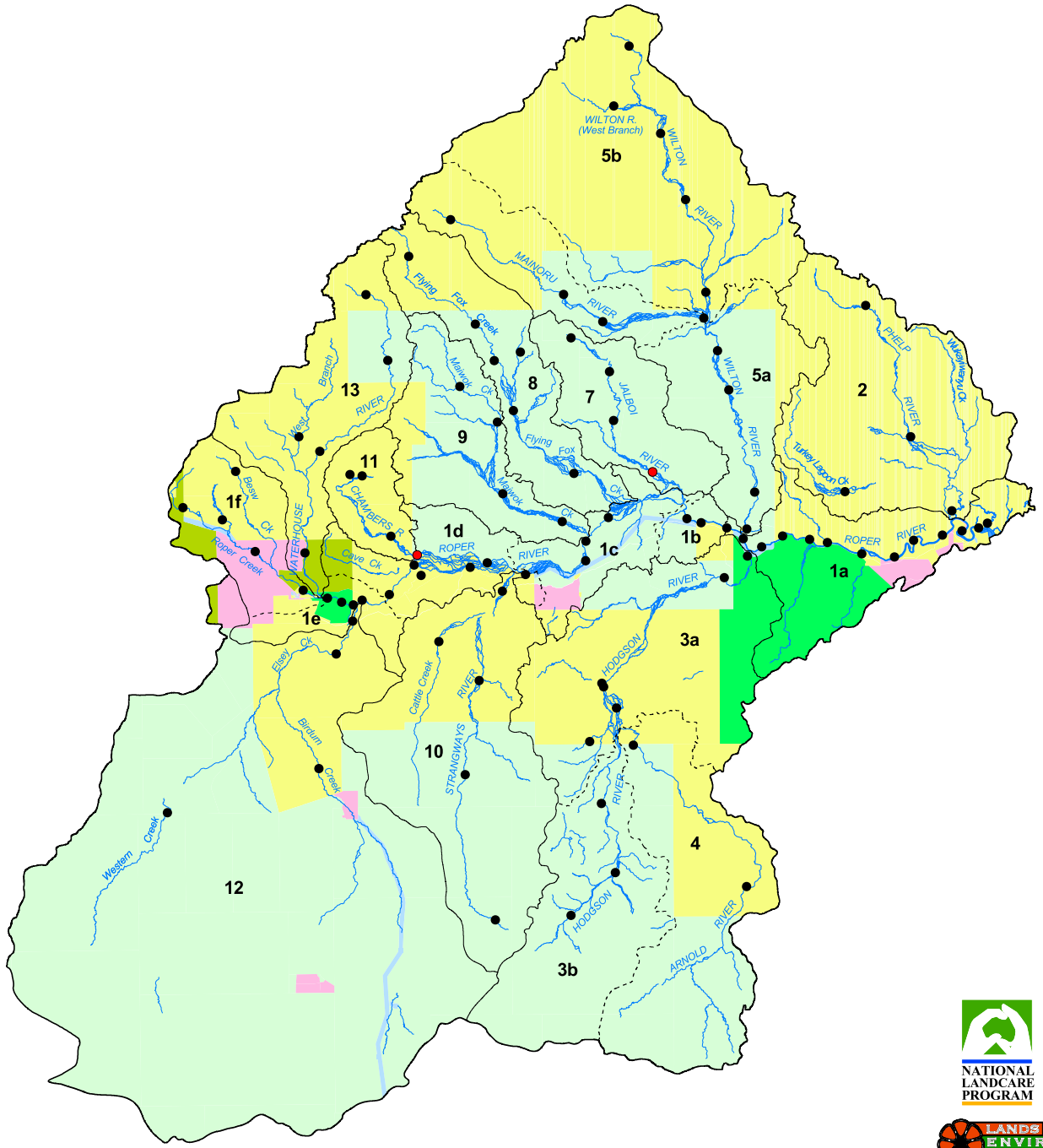
TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

ASSESSMENT OF RIVERINE CONDITION

MAP SERIES

This document displays the following map series relating to the Riverine Condition of the Roper River Catchment.

Map 10	Local Land Tenure at Sites
Map 11	State of the Reach Environs
Map 12	Channel Type Diversity
Map 13	Bank Stability
Map 14	Bed Stability
Map 15	Cover and Structural Diversity of Riparian Vegetation
Map 16	Width of Riparian Vegetation
Map 17	Cover of Exotic Riparian Vegetation
Map 18	Cover and Distribution of *Passiflora foetida*
Map 19	Cover and Distribution of *Hyptis suaveolens*
Map 20	Cover and Distribution of *Parkinsonia aculeata*
Map 21	Cover and Distribution of Submerged Aquatic Vegetation
Map 22	Cover and Distribution of Emergent Aquatic Vegetation
Map 23	Cover and Distribution of Floating Aquatic Vegetation
Map 24	Cover and Diversity of Instream and Bank Habitats
Map 25	Overall Condition



LAND CLASSIFICATION

- National Park or Reserve
- Pastoral Lease
- Vacant Crown Land / Government Use
- Private Freehold
- Crown Lease Term
- Crown Lease Perpetual

LEGEND

- Surveyed Site
- Site Not Assessed
- 5a Sub-section Number
- Catchment Boundary
- Sub-catchment Boundary
- Sub-section Boundary
- River
- Creek

NOTE

A summary of the land tenure along the reach environs is shown below:

Land Tenure Category	Percent of Sites (%)
Freehold / Leasehold	97
National Park	3
State Park	0
Reserve / Environmental Park	0
State Forest	0
Urban Reserve	0
Urban	0

N

0 20 40 60 80 100

Kilometres

TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

LOCAL LAND TENURE AT SITES

Map 10

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River

LEGEND

SITE LOCATION	REACH ENVIRONS CATEGORY	RATING (%)
●	Essentially Natural	81 - 100
●	Some Modification	61 - 80
●	Moderate Modification	41 - 60
●	Major Modification	21 - 40
●	Extreme Modification	0 - 20
○	Site Not Assessed	

5a — Sub-section Number

Catchment Boundary

Sub-catchment Boundary

Sub-section Boundary

River

Creek

NOTE

State of the Reach Environs -
The rating is based on an assessment of the land corridor along the survey reach and on the floodplain adjacent to the reach. The rating takes into account local land use and local disturbances along the reach environs.

N

0 20 40 60 80 100

Kilometres

NATIONAL LANDCARE PROGRAM

Natural Heritage Trust

LANDS PLANNING ENVIRONMENT
Northern Territory Government

TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

STATE OF THE REACH ENVIRONS

Map 11

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River

LEGEND

SITE LOCATION	DIVERSITY CATEGORY	RATING (out ot 10)
●	Very High Diversity	9 - 10
●	High Diversity	7 - 8
●	Moderate Diversity	5 - 6
●	Low Diversity	3 - 4
●	Very Low Diversity	1 - 2
○	Site Not Assessed	

5a Sub-section Number
Catchment Boundary
Sub-catchment Boundary
Sub-section Boundary
River
Creek

NOTE

Channel Type Diversity -
The diversity categories take into account the number of different channel habitat types present (cascades, glides, pools, rapids, riffles, runs, waterfalls) and the proportion of the reach occupied by pools versus other habitat types.

The derived ratings for this component are NOT used to produce the Overall Condition Rating for each site.

N

0 20 40 60 80 100
Kilometres

TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

CHANNEL TYPE DIVERSITY

Map 12

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River

LEGEND

SITE LOCATION	STABILITY CATEGORY	RATING (%)
●	Stable	81 - 100
●	Limited Instability	61 - 80
●	Moderate Instability	41 - 60
●	Extensive Instability	21 - 40
●	Extreme Instability	0 - 20
○	Site Not Assessed	

DOMINANT PROCESS AT EACH SITE

A — Aggradation

Erosion
(the dominant process at all sites assessed, other than those with an 'A', is erosion)

5a — Sub-section Number

Catchment Boundary

Sub-catchment Boundary

Sub-section Boundary

River

Creek

NOTE

Bank Stability -
The ratings are determined from the recorded percentages of the banks on each side of the reach which are rated as stable. Upper banks are assigned a greater proportion of the score than lower banks. The dominant process at each site (erosion or aggradation) is recorded.

N

0 20 40 60 80 100
Kilometres

NATIONAL LANDCARE PROGRAM

Natural Heritage Trust

LANDS PLANNING ENVIRONMENT
Northern Territory Government

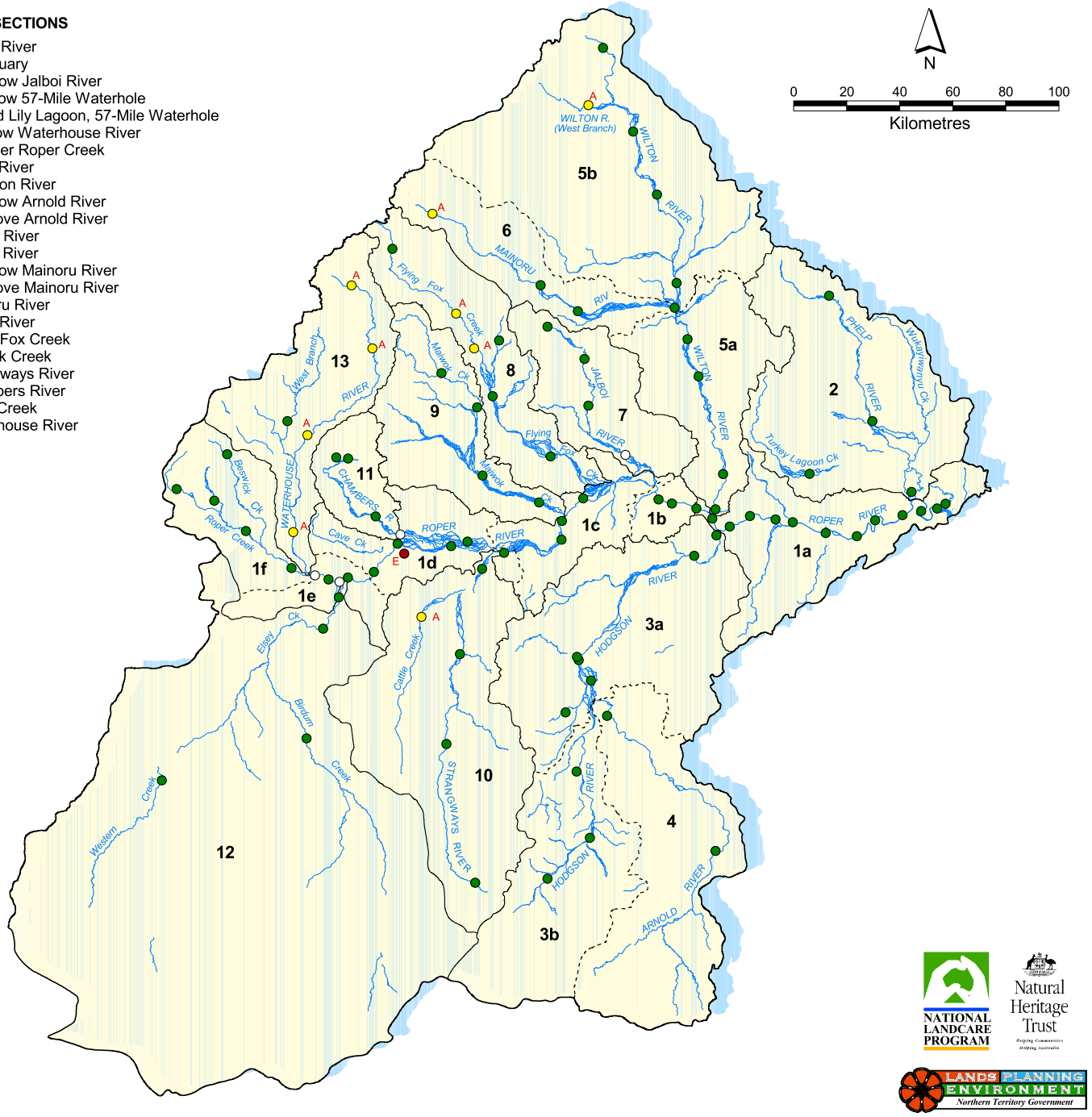
TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

BANK STABILITY

Map 13

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River



NATIONAL LANDCARE PROGRAM

Natural Heritage Trust

LANDS PLANNING ENVIRONMENT
Northern Territory Government

LEGEND

SITE LOCATION	STABILITY CATEGORY	RATING (out of 10)
●	Stable	10
●	Moderate Aggradation or Erosion	6
●	Severe Aggradation or Erosion	2
○	Site Not Assessed	

DOMINANT PROCESS AT EACH SITE

A Aggradation

E Erosion

Stable (No Process) - not labelled

5a Sub-section Number

Catchment Boundary

Sub-catchment Boundary

Sub-section Boundary

River

Creek

NOTE

Bed Stability -
The ratings are determined from a subjective assessment made in the field of whether the river bed is stable; moderately eroding or aggrading; or severely eroding or aggrading. That is,

- Stable bed: The river bed is consolidated; bed and bar material is the same size; alluvium balanced; and banks stable.
- Moderate erosion: There is little alluvium; signs of deepening; eroded banks; bed deep, narrow and steep; unconsolidated.
- Moderate aggradation: There is moderate build-up at obstructions and bars; bed is flat, uniform, wide and shallow; some over-bank siltation.
- Severe erosion: The bed is scoured of sand; signs of deepening; bare eroded banks; erosion heads; erosion causes; and a steep bed.
- Severe aggradation: The bed is flat, wide but shallow and channel blocked; bars large, covering most of bed and bank; bed is loose and unconsolidated.

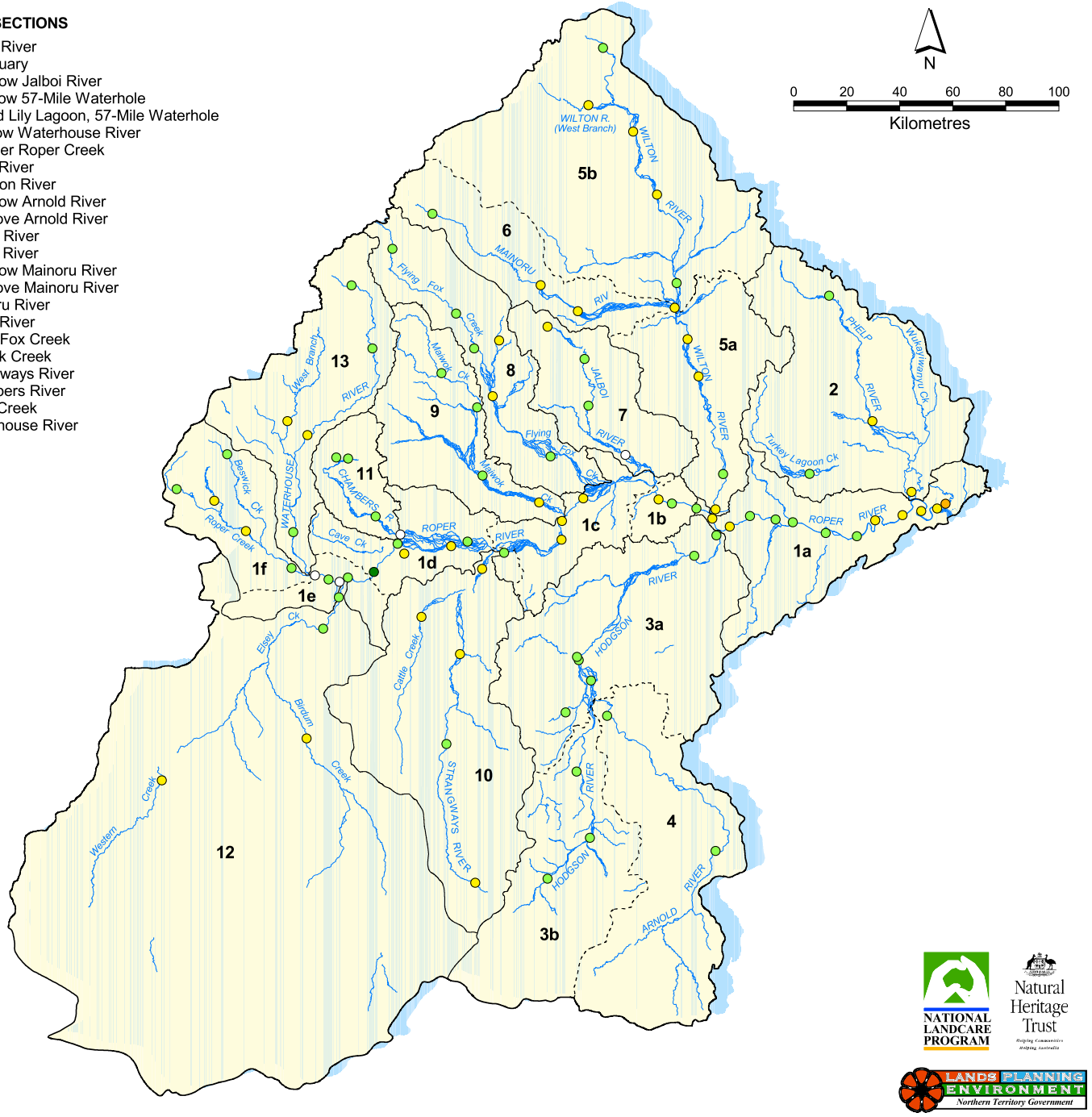
TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

BED STABILITY

Map 14

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River



LEGEND

SITE LOCATION	RIPARIAN VEGETATION CATEGORY	RATING (out ot 10)
●	Very High Cover/Diversity	9 - 10
●	High Cover/Diversity	7 - 8
●	Moderate Cover/Diversity	5 - 6
●	Low Cover/Diversity	3 - 4
●	Very Low Cover/Diversity	1 - 2
○	Site Not Assessed	

5a Sub-section Number

Catchment Boundary

Sub-catchment Boundary

Sub-section Boundary

River

Creek

NOTE

Cover and Structural Diversity of the Riparian Vegetation - The ratings take into account:

a. The foliage cover or density provided by the overstorey, understorey and ground cover vegetation types or growth forms . The distinction between these three vegetation layers is -
   - overstorey vegetation includes large trees (>30m tall), medium-sized trees (10-30m tall) and palms;
   - understorey vegetation includes small trees (2-10m tall), regenerating trees (<2m tall), mangroves and woody shrubs (<2m tall);
   - ground cover vegetation includes vines, rushes/sedges, forbs, salt marsh, ferns, grasses and Phragmites.

   Both native and exotic vegetation species are included when calculating the covers. The extent of bare ground along the river banks within the riparian zone reduce the ratings.

b. The structural diversity or number of different growth forms present (eg trees of different height classes, palms, shrubs, vines, forbs, grasses, ferns, *etc*).

NATIONAL LANDCARE PROGRAM

Natural Heritage Trust

LANDS PLANNING ENVIRONMENT Northern Territory Government

TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

COVER AND STRUCTURAL DIVERSITY OF RIPARIAN VEGETATION

Map 15

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River

LEGEND

SITE LOCATION	RIPARIAN VEGETATION WIDTH CATEGORY (m)
●	> 40
●	31 - 40
○	21 - 30
●	11 - 20
●	5 - 10
●	< 5
○	Site Not Assessed

5a Sub-section Number
Catchment Boundary
Sub-catchment Boundary
Sub-section Boundary
River
Creek

NOTE

The width of the riparian vegetation is averaged for both river banks at a site before being assigned a width category.

N

0 20 40 60 80 100
Kilometres

NATIONAL LANDCARE PROGRAM
Natural Heritage Trust
LANDS PLANNING ENVIRONMENT Northern Territory Government

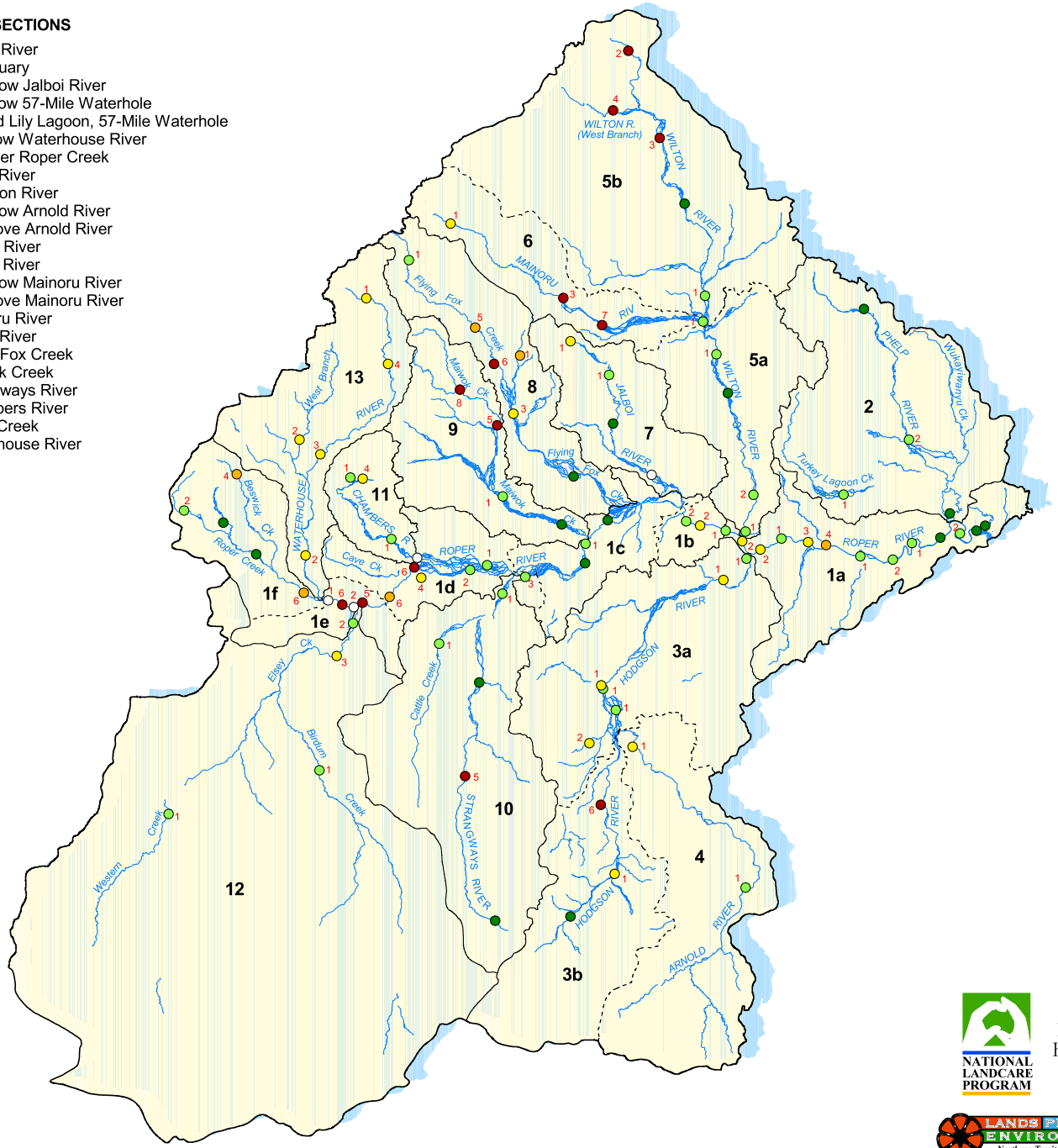
TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

WIDTH OF RIPARIAN VEGETATION

Map 16

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River



LEGEND

SITE LOCATION	% COVER CATEGORY	RATING (out of 10)
●	0	10
●	1 - 5	8
●	6 - 10	6
●	11 - 15	4
●	16 - 34 *	2
○	Site Not Assessed	

NUMBER OF TYPES OF EXOTIC SPECIES

1 - 8	The number of different types of exotic species recorded at a site, if present.
5a	Sub-section Number
———	Catchment Boundary
———	Sub-catchment Boundary
- - - - -	Sub-section Boundary
———	River
———	Creek

NOTE

Cover of Exotic Riparian Vegetation -
The ratings take into account the percentage cover recorded for exotic species within the riparian zone, averaged for both river banks at a site. The higher the percentage cover recorded for exotic species, or the higher the degree of invasion, the lower the rating. The number of different types of exotic species recorded at a site, if present, is shown.

* The maximum percentage cover recorded for exotic riparian vegetation was 34%.

N

0 20 40 60 80 100

Kilometres

NATIONAL LANDCARE PROGRAM

Natural Heritage Trust

LANDS PLANNING ENVIRONMENT
Northern Territory Government

TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

COVER OF EXOTIC RIPARIAN VEGETATION

Map 17

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River

LEGEND

SITE LOCATION	% COVER CATEGORY
●	0
●	1 - 5
●	6 - 10
●	11 - 15
●	16 - 20 *
○	Site Not Assessed

5a Sub-section Number
Catchment Boundary
Sub-catchment Boundary
Sub-section Boundary
River
Creek

NOTE

Passiflora foetida (Stinking Passion Flower), a naturalised vine, was the major exotic species recorded throughout the catchment. Its distribution and the percentage cover recorded are shown. Percentage covers are averaged if the species is recorded for both river banks at a site.

* The maximum percentage cover recorded for *Passiflora foetida* was 20%.

N

0 20 40 60 80 100
Kilometres

NATIONAL LANDCARE PROGRAM
Natural Heritage Trust
LANDS PLANNING ENVIRONMENT
Northern Territory Government

TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

COVER AND DISTRIBUTION OF *Passiflora foetida*

Map 18

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River

LEGEND

SITE LOCATION	% COVER CATEGORY
●	0
●	1 - 5
●	6 - 10
●	11 - 15 *
●	>15
○	Site Not Assessed

5a	Sub-section Number
———	Catchment Boundary
———	Sub-catchment Boundary
- - - - -	Sub-section Boundary
———	River
———	Creek

NOTE

Hyptis suaveolens (Hyptis), a forb, was the second major exotic species recorded throughout the catchment. Its distribution and the percentage cover recorded are shown. Percentage covers are averaged if the species is recorded for both river banks at a site.

* The maximum percentage cover recorded for *Hyptis suaveolens* was 15%.

N

0 20 40 60 80 100

Kilometres

NATIONAL LANDCARE PROGRAM

Natural Heritage Trust

LANDS PLANNING ENVIRONMENT
Northern Territory Government

TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

COVER AND DISTRIBUTION OF *Hyptis suaveolens*

Map 19

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River

LEGEND

SITE LOCATION	% COVER CATEGORY
●	0
●	1 - 5 *
●	6 - 10
●	11 - 15
●	16 - 28
○	Site Not Assessed

5a	Sub-section Number
———	Catchment Boundary
———	Sub-catchment Boundary
- - - -	Sub-section Boundary
———	River
———	Creek

NOTE

Parkinsonia aculeata (Parkinsonia), a low tree, was the third major exotic species recorded throughout the catchment. Its distribution and the percentage cover recorded are shown. Percentage covers are averaged if the species is recorded for both river banks at a site.

* The maximum percentage cover for *Parkinsonia aculeata* was 5%

N

0 20 40 60 80 100

Kilometres

NATIONAL LANDCARE PROGRAM

Natural Heritage Trust

LANDS PLANNING ENVIRONMENT
Northern Territory Government

TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

COVER AND DISTRIBUTION OF *Parkinsonia aculeata*

Map 20

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River

LEGEND

SITE LOCATION	% COVER CATEGORY
●	16 - 53 *
●	11 - 15
●	6 - 10
●	1 - 5
●	0
○	Site Not Assessed

5a — Sub-section Number
Catchment Boundary
Sub-catchment Boundary
Sub-section Boundary
River
Creek

NOTE

Cover and Distribution of Submerged Aquatic Vegetation - The categories where covers were recorded include filamentous algae, Chara/Nitella, Vallisneria, Myriophyllum and other herb-like forms. No exotic species were recorded.

* The maximum percentage cover recorded for submerged aquatic vegetation was 53%.

N

0 20 40 60 80 100

Kilometres

NATIONAL LANDCARE PROGRAM

Natural Heritage Trust

LANDS PLANNING ENVIRONMENT
Northern Territory Government

TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

COVER AND DISTRIBUTION OF SUBMERGED AQUATIC VEGETATION

Map 21

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River

LEGEND

SITE LOCATION	% COVER CATEGORY
●	16 - 55 *
●	11 - 15
●	6 - 10
●	1 - 5
●	0
○	Site Not Assessed

5a	Sub-section Number
———	Catchment Boundary
———	Sub-catchment Boundary
- - - -	Sub-section Boundary
———	River
———	Creek

NOTE

Cover and Distribution of Emergent Aquatic Vegetation - The categories where covers were recorded include Phragmites, Typha, rushes/sedges, Pandanus, Melaleuca, other shrubs/trees and ground covers. The only exotic species recorded was *Phyla nodiflora* (Lippia), which was located on Elsey Creek at Site 12/1 and recorded a cover of 18%.

* The maximum percentage cover recorded for emergent aquatic vegetation was 55%.

N

0 20 40 60 80 100

Kilometres

NATIONAL LANDCARE PROGRAM

Natural Heritage Trust

LANDS PLANNING ENVIRONMENT
Northern Territory Government

TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

COVER AND DISTRIBUTION OF EMERGENT AQUATIC VEGETATION

Map 22

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River

LEGEND

SITE LOCATION	% COVER CATEGORY
●	16 - 45 *
●	11 - 15
●	6 - 10
●	1 - 5
●	0
○	Site Not Assessed

5a Sub-section Number
Catchment Boundary
Sub-catchment Boundary
Sub-section Boundary
River
Creek

NOTE

Cover and Distribution of Floating Aquatic Vegetation - The categories where covers were recorded include water lilies and other floating vegetation. No exotic species were recorded.

* The maximum percentage cover recorded for emergent aquatic vegetation was 45%.

N

0 20 40 60 80 100

Kilometres

NATIONAL LANDCARE PROGRAM

Natural Heritage Trust

LANDS PLANNING ENVIRONMENT
Northern Territory Government

TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

COVER AND DISTRIBUTION OF FLOATING AQUATIC VEGETATION

Map 23

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River

LEGEND

SITE LOCATION	INSTREAM / BANK HABITAT CATEGORY	RATING (%)
	Very High Cover/Diversity	81 - 100
	High Cover/Diversity	61 - 80
	Moderate Cover/Diversity	41 - 60
	Low Cover/Diversity	21 - 40
	Very Low Cover/Diversity	0 - 20
	Site Not Assessed	
5a	Sub-section Number	
	Catchment Boundary	
	Sub-catchment Boundary	
	Sub-section Boundary	
	River	
	Creek	

NOTE

Cover and Diversity of Instream and Bank Habitats - The ratings are based on a combination of the cover and diversity provided by instream organic debris (logs, branches, leaves/twigs, *etc*), aquatic vegetation and other habitat types (such as rock, permanent pools) on the bed, as well as the cover and diversity provided by the canopy and other habitats (low vegetation, roots, bank overhang) along the river banks.

N

0 20 40 60 80 100

Kilometres

NATIONAL LANDCARE PROGRAM

Natural Heritage Trust

LANDS PLANNING ENVIRONMENT
Northern Territory Government

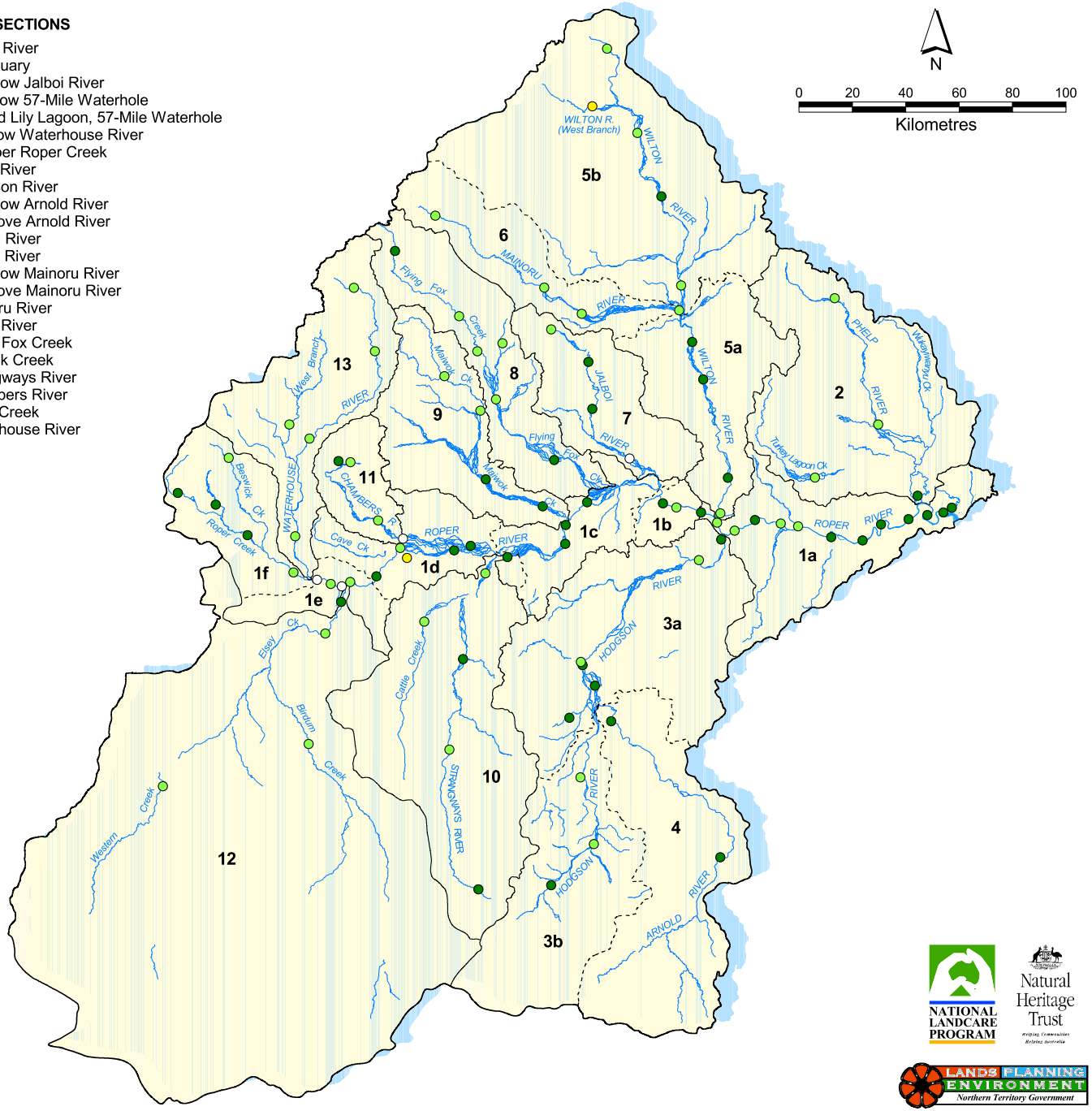
TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

COVER AND DIVERSITY OF INSTREAM AND BANK HABITATS

Map 24

SUB-SECTIONS

1. Roper River
   a. Estuary
   b. Below Jalboi River
   c. Below 57-Mile Waterhole
   d. Red Lily Lagoon, 57-Mile Waterhole
   e. Below Waterhouse River
   f. Upper Roper Creek
2. Phelp River
3. Hodgson River
   a. Below Arnold River
   b. Above Arnold River
4. Arnold River
5. Wilton River
   a. Below Mainoru River
   b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River



NATIONAL LANDCARE PROGRAM

Natural Heritage Trust

LANDS PLANNING ENVIRONMENT
Northern Territory Government

LEGEND

SITE LOCATION	OVERALL CONDITION CATEGORY	RATING (%)
●	Essentially Natural/ Stable, Very High Cover/ Diversity or Exotics Absent/Negligible	81 - 100
●		61 - 80
●		41 - 60
●		21 - 40
●	Extreme Modification/ Instability, Very Low Cover/ Diversity or Very High Cover for Exotics	0 - 20
○	Site Not Assessed	

5a Sub-section Number
Catchment Boundary
Sub-catchment Boundary
Sub-section Boundary
River
Creek

NOTE

Overall Condition -
Provides an indication of the overall condition of the sites based on the following six components that were assessed:

- state of the reach environs
- bank stability
- bed stability
- cover and structural diversity of riparian vegetation
- cover of exotic riparian vegetation
- cover and diversity of instream and bank habitats

The rating for each component is combined equally to produce an Overall Condition Rating for each site.

TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

OVERALL CONDITION

Map 25

Top End Waterways Project
ROPER RIVER CATCHMENT

HANDY HINTS USING ADOBE ACROBAT READER

An update of this free software is available to download from the web. Click on this address to visit the web site : http://www.adobe.com/products/acrobat/readermain.html

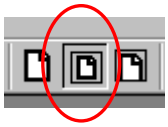
1. SETTING UP YOUR PAGE IN ADOBE ACROBAT

Pull down menu *FILE* and select *PREFERENCES*
Now select *GENERAL*
Change the *page units* to "millimetres"
Change the *magnification default zoom* to "Fit in Window"

You will notice the actual page size for each pdf page is noted in millimetres at the bottom of the view.
Each page number is also noted as you scroll through the document.

2. HANDY FUNCTIONS TO USE

BOOKMARKS *have been created to help you locate information in this document. Click on this tool to view the bookmarks.*



FIT IN VIEW *Select this tool to view the entire page.*

ZOOM IN *Drag and click a rectangle to enlarge a selected area.*

PANNING *This tool allows you to move around the viewing screen. Select the tool and drag the hand icon to scroll around the screen.*

SEARCH *The left binoculars can search and locate a specific word or phrase in the current page. The right binoculars will search the entire document. (control G to find the next location)*

3. HOW TO PRINT THIS PDF DOCUMENT

These maps were designed to be printed on an A4 colour printer.
For best results when printing, select the highest resolution possible.

1. Select Print icon
2. Select printer required.
3. "FIT TO PAGE" must NOT be ticked
4. Select which pages you wish to print *(see page no – bottom of the screen)*
5. Select PROPERTIES tab
6. Select A4 portrait or landscape to suit the page
7. Change the resolution to suit
8. Press OK
9. Press OK to print