

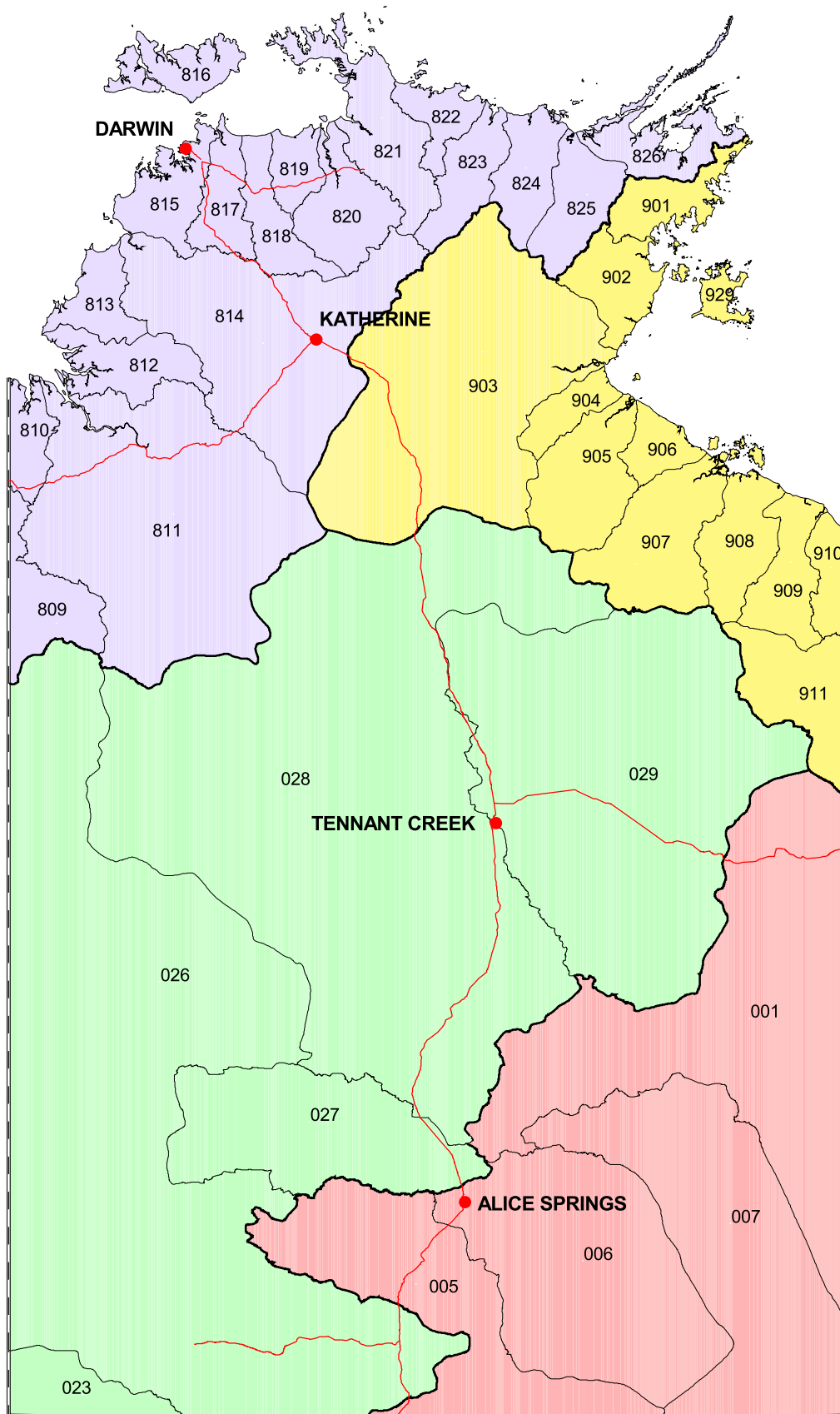


## CATCHMENT OVERVIEW MAP SERIES

This document displays the following map series for the report,  
*Daly River Catchment, Part 1 - An Assessment of the Physical  
and Ecological Condition of the Daly River and its Major  
Tributaries*

- |       |   |
|-------|---|
| Map 1 | NT Drainage Divisions and Basins as defined by the Australian Water Resources Council |
| Map 2 | Locality Plan and Dry Season Flows  |
| Map 3 | Landform  |
| Map 4 | Vegetation and Important Wetlands   |
| Map 5 | Land Tenure and Land Use  |
| Map 6 | Major Sub-catchments  |
| Map 7 | Sub-sections  |
| Map 8 | Stream Orders   |
| Map 9 | Location of Sites   |





## DRAINAGE DIVISIONS



### LAKE EYRE

- 001 Georgina River
- 005 Finke River
- 006 Todd River
- 007 Hay River



### WESTERN PLATEAU

- 023 Warburton
- 026 Mackay
- 027 Burt
- 028 Wiso
- 029 Barkly



### TIMOR SEA

- 809 Ord River
- 810 Keep River
- \* 811 Victoria River
- 812 Fitzmaurice River
- 813 Moyle River
- \* 814 Daly River
- 815 Finnis River
- 816 Bathurst & Melville Islands
- 817 Adelaide River
- 818 Mary River
- 819 Wildman River
- 820 South Alligator River
- 821 East Alligator River
- 822 Goomadeer River
- 823 Liverpool River
- 824 Blyth River
- 825 Goyder River
- 826 Buckingham River



### GULF OF CARPENTARIA

- 901 Koolatong River
- 902 Walker River
- 903 Roper River
- 904 Towns River
- 905 Limmen Bight River
- 906 Rosie River
- 907 McArthur River
- 908 Robinson River
- 909 Calvert River
- 910 Settlement River
- 911 Nicholson River
- 929 Grooyte Eylandt

- Division Boundary
- Basin Boundary



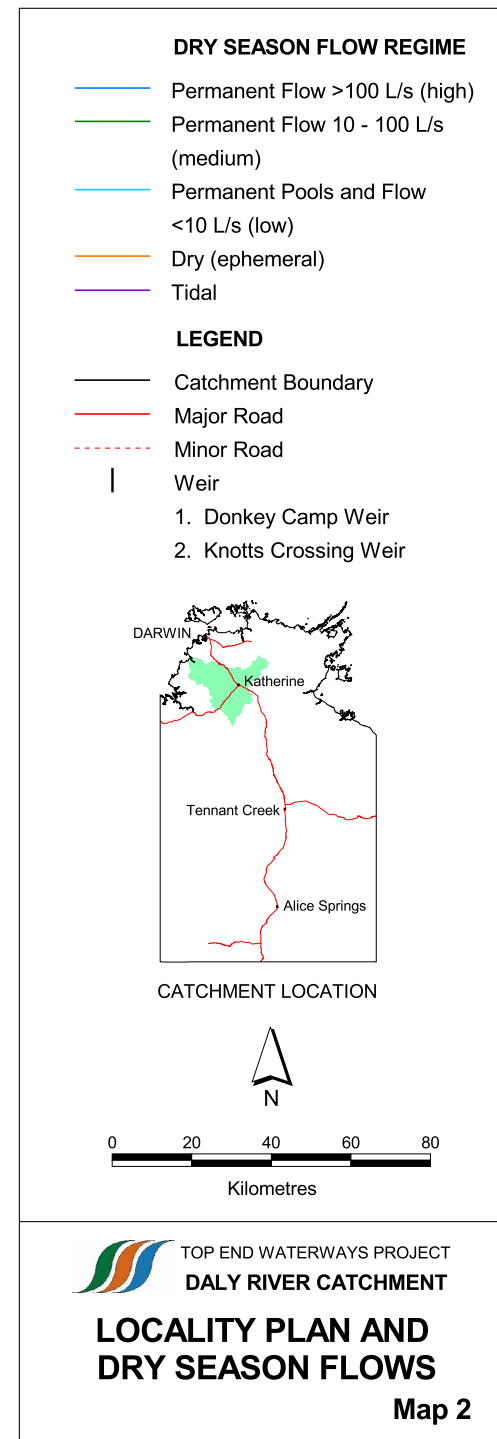
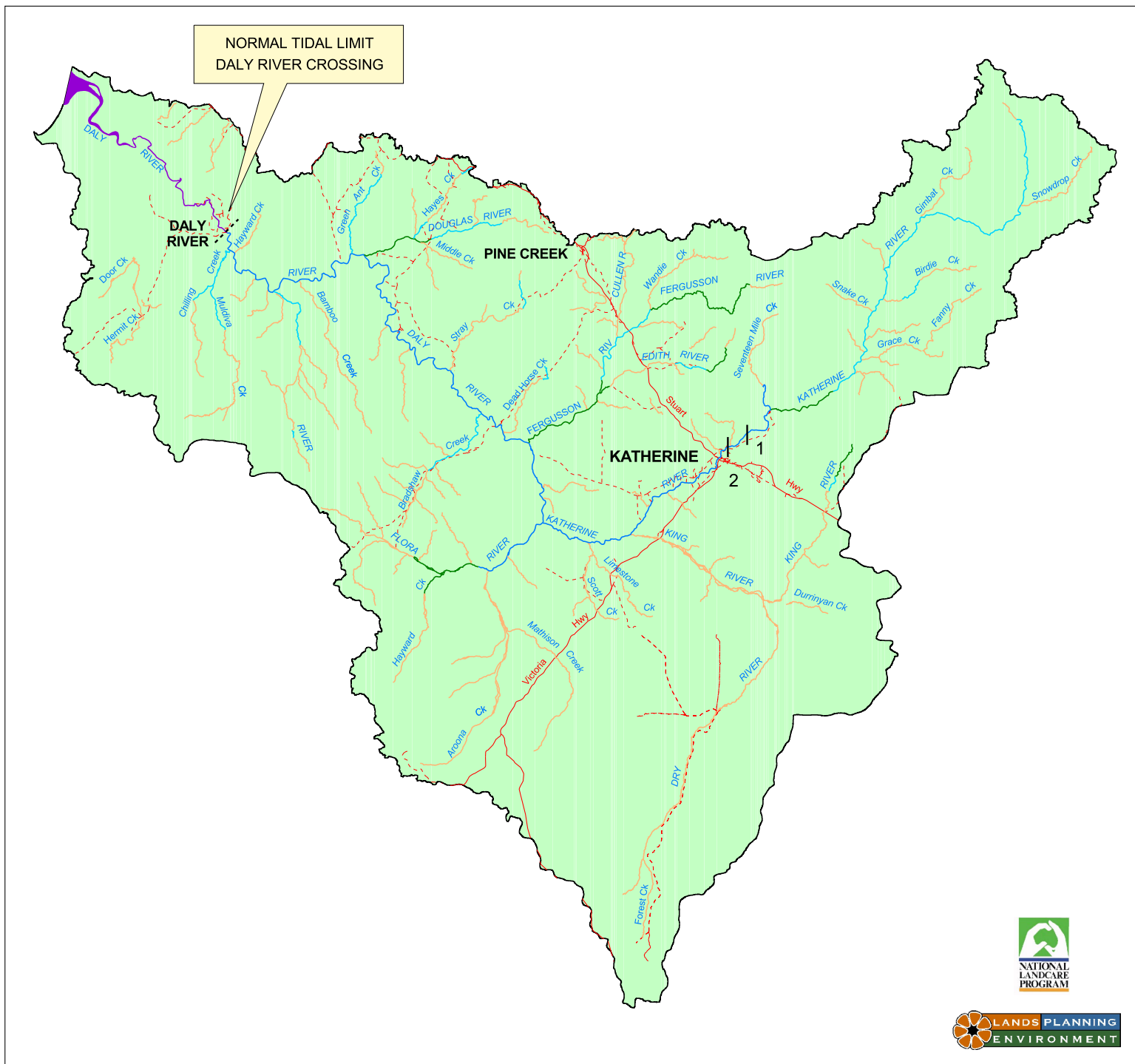
\* Baseline data collected for Top End Waterways Project (1995 - 1997)



# NT DRAINAGE DIVISIONS AND BASINS

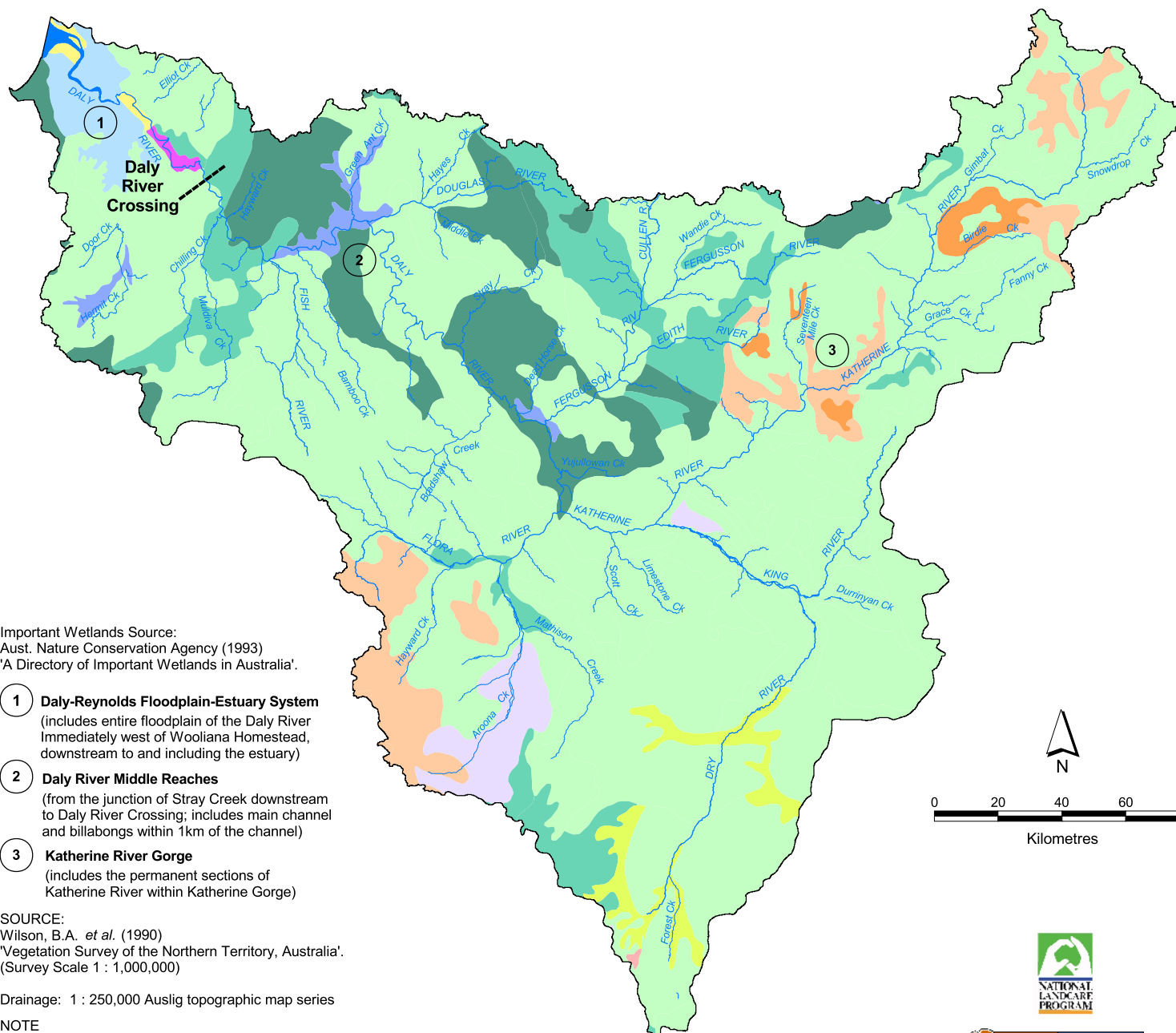
as defined by the Australian Water Resources Council

Map 1









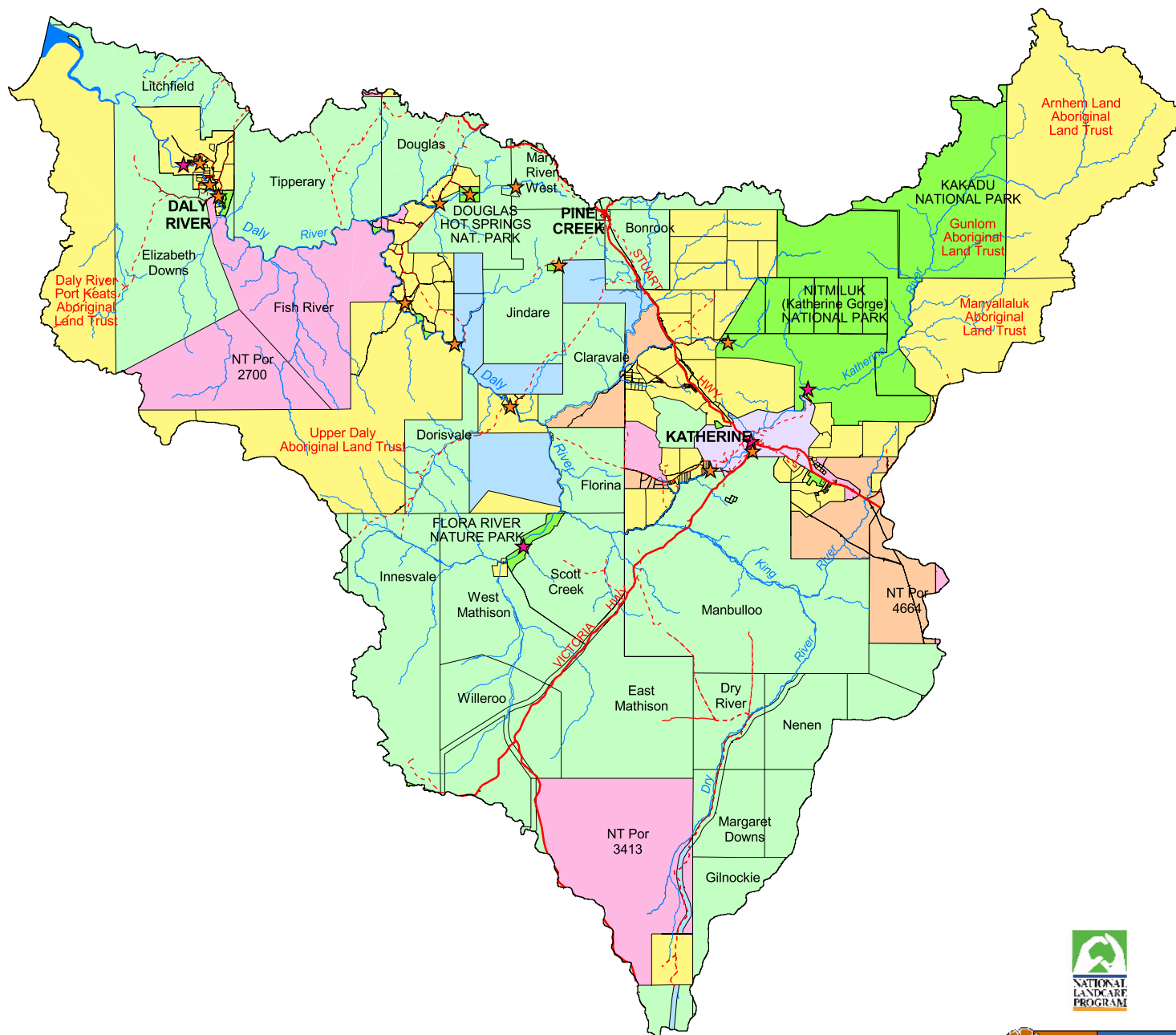
## VEGETATION DESCRIPTION

- CLOSED - FOREST**  
Mixed species closed-forest  
(Monsoon vine forest thicket)
- EUCALYPT WITH GRASS UNDERSTOREY**
- Open - Forest**  
*E. miniata*, *E. tetradonta* with *Sorghum*  
grassland understorey
- Woodland**  
*E. bleeseri*, *E. dichromophloia*, *E. ferruginea*,  
*E. latifolia*, *E. miniata*, *E. papuana*, *E. patellaris*,  
*E. polycarpa*, *E. tectifera*, *E. tetradonta*, *E. terminalis*  
Grassland understorey  
*Chrysopogon fallax*, *Sehima nervosum*,  
*Plectrachne pungens*, *Sorghum*
- Low Woodland**  
*E. chlorophylla*, *E. dichromophloia*, *E. microtheca*,  
*E. terminalis*, *E. tintinnans*, *Excoecaria parvifolia*,  
*E. pruinosa*  
Grassland understorey  
*Eulalia aurea*, *Dichanthium*, *Chrysopogon fallax*,  
*Sehima nervosum*, *Plectrachne pungens*, *Sorghum*
- Low Open - Woodland**  
*E. microtheca* with *Eulalia aurea*, *Dichanthium*  
grassland understorey
- EUCALYPT WITH HUMMOCK GRASS UNDERSTOREY**
- Low Woodland**  
*E. phoenicia* with *Plectrachne pungens* hummock  
grassland understorey
- Low - Open Woodland**  
*E. brevifolia*, *E. dichromophloia*, *E. miniata* with  
*Plectrachne pungens* hummock grassland  
understorey
- MIXED SPECIES LOW OPEN-WOODLAND WITH GRASS UNDERSTOREY**  
*E. pruinosa*, *Lysiphillum cunninghamii*, *Terminalia*  
*arostrata*, with *Eulalia aurea*, *Dichanthium*,  
*Chrysopogon fallax*, *Sehima nervosum*  
grassland understorey
- MELALEUCA**  
*M. viridiflora*, *Eucalyptus* low open - woodland with  
*Chrysopogon fallax* grassland understorey
- FLOODPLAINS**  
Mixed closed - grassland / sedgeland (Seasonal  
Floodplain)
- ACACIA WITH GRASS UNDERSTOREY**  
*A. shirleyi* open - forest with open - grassland  
understorey
- LITTORAL**  
Mangal low - closed forest (Mangroves); saline tidal  
flats with scattered chenopod low shrubland

 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## VEGETATION AND IMPORTANT WETLANDS

(Broad scale mapping) Map 4



#### LAND CLASSIFICATION

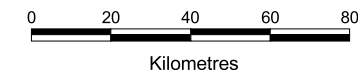
- Katherine Municipal Boundary
- National Park or Reserve
- Pastoral Lease
- Vacant Crown Land
- Private Freehold
- Crown Lease Term
- Crown Lease Perpetual

#### LEGEND

- Public Recreation Area and Boat Ramp
- Public Recreation Area
- Catchment Boundary
- Cadastral Boundary
- Major Road
- Minor Road
- River
- Creek

#### NOTE

In general, where waterways form property boundaries the bed and banks of the waterway separating such properties is classified as Crown land. Where a waterway lies within a property the bed and banks of the waterway belong to the property owners but the water rights over such waterways belong to the Crown.

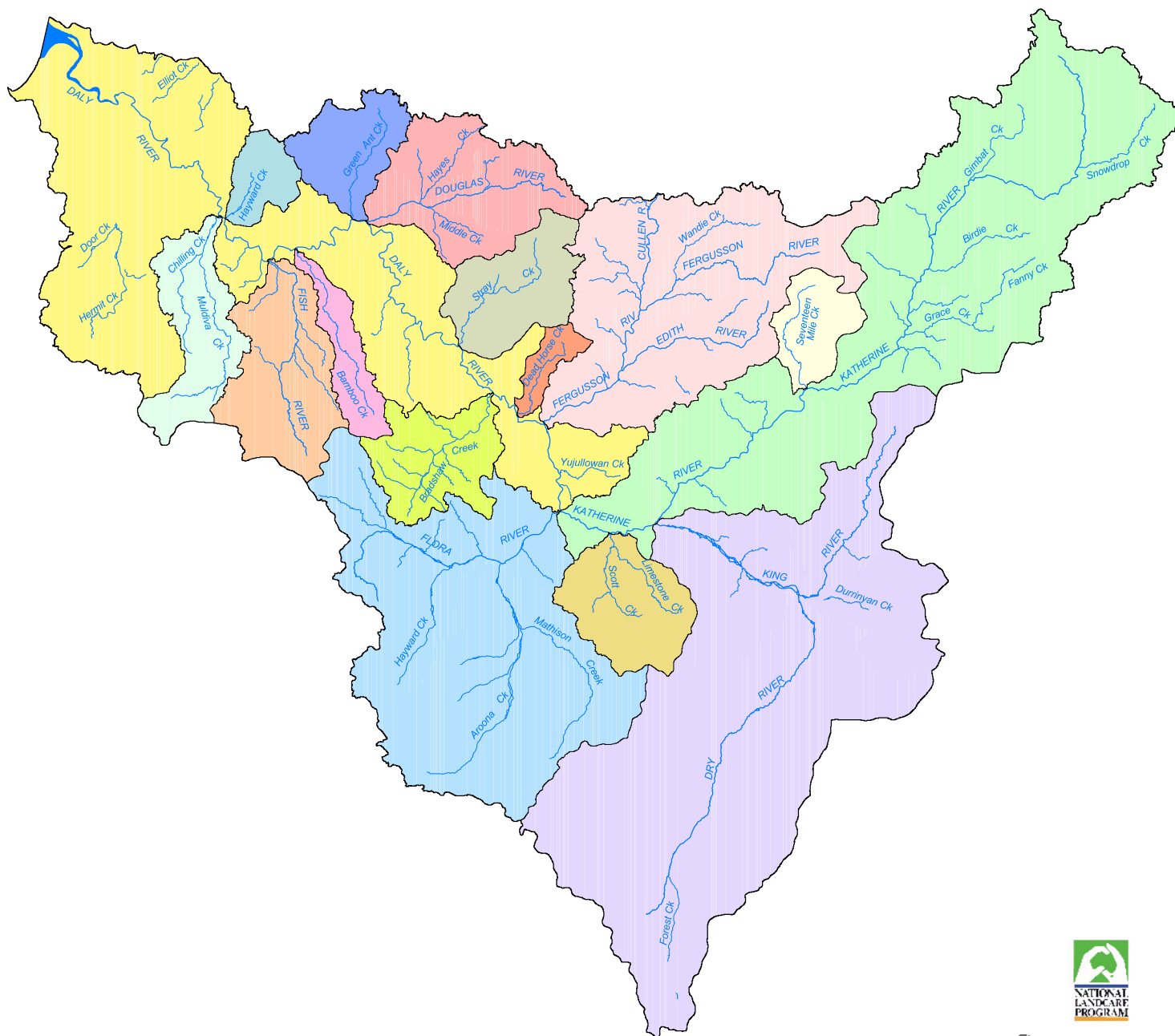


TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## LAND TENURE AND LAND USE

Map 5



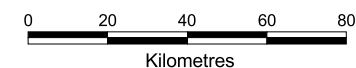


## MAJOR SUB-CATCHMENTS

- Daly River
- Chilling Creek
- Hayward Creek
- Fish River
- Bamboo (Moon Boon) Creek
- Green Ant Creek
- Douglas River
- Stray Creek
- Bradshaw Creek
- Dead Horse Creek
- Fergusson River
- Flora River
- Katherine River
- Limestone Creek
- King and Dry Rivers
- Seventeen Mile Creek

## LEGEND

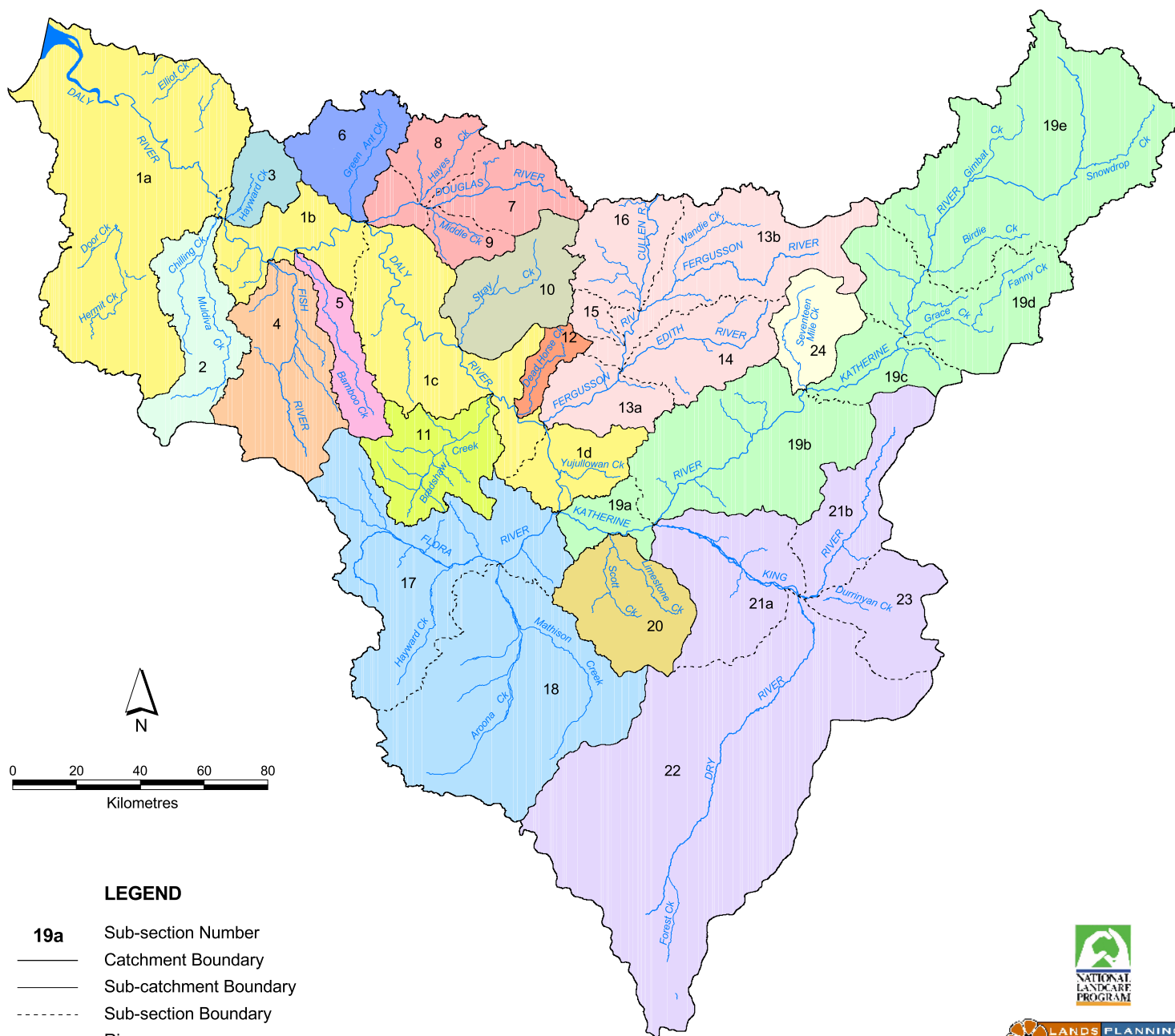
- Catchment Boundary
- Sub-catchment Boundary
- River
- Creek



TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## MAJOR SUB-CATCHMENTS

Map 6



## LEGEND

- 19a** Sub-section Number
- Catchment Boundary
- Sub-catchment Boundary
- Sub-section Boundary
- River
- Creek

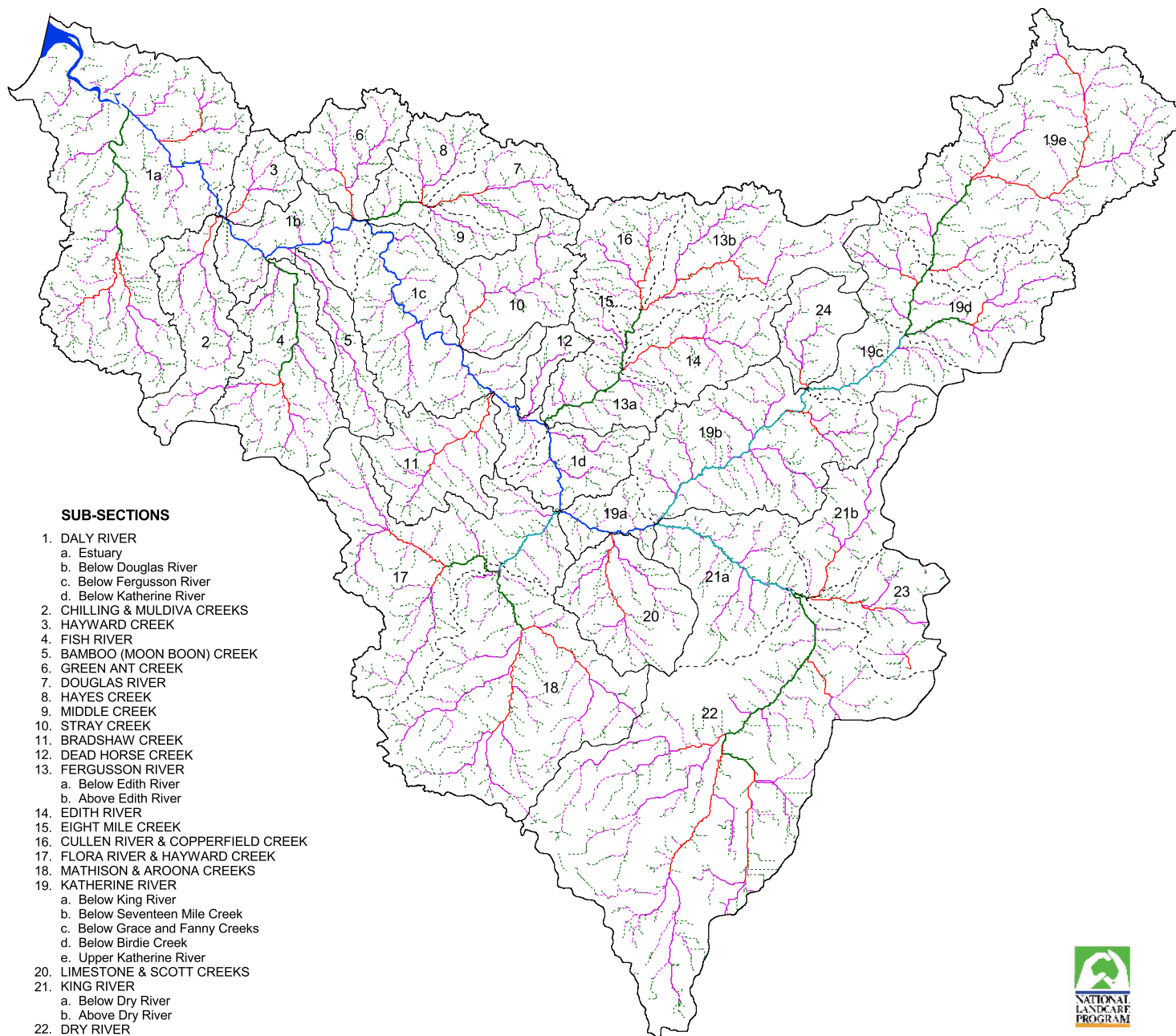
SUB SECTION NUMBER	AREA (km <sup>2</sup> )	SUB SECTION NAME
1.	8,884	DALY RIVER a. Estuary b. Below Douglas River c. Below Fergusson River d. Below Katherine River
2.	1,241	CHILLING & MULDIVA CREEKS
3.	472	HAYWARD CREEK
4.	1,748	FISH RIVER
5.	602	BAMBOO (MOON BOON) CREEK
6.	914	GREEN ANT CREEK
7.	1,116	DOUGLAS RIVER
8.	535	HAYES CREEK
9.	313	MIDDLE CREEK
10.	1,216	STRAY CREEK
11.	1,181	BRADSHAW CREEK
12.	278	DEAD HORSE CREEK
13.	2,672	FERGUSSON RIVER a. Below Edith River b. Above Edith River
14.	1,057	EDITH RIVER
15.	180	EIGHT MILE CREEK
16.	879	CULLEN RIVER & COPPERFIELD CK
17.	2,946	FLORA RIVER & HAYWARD CK
18.	3,790	MATHISON & AROONA CKS
19.	9,569	KATHERINE RIVER a. Below King River b. Below Seventeen Mile Creek c. Below Grace and Fanny Creeks d. Below Birdie Creek e. Upper Katherine River
20.	1,275	LIMESTONE & SCOTT CREEKS
21.	2,815	KING RIVER a. Below Dry River b. Above Dry River
22.	7,208	DRY RIVER
23.	989	DURRINYAN CREEK
24.	696	SEVENTEEN MILE CREEK
TOTAL		52,577 DALY RIVER CATCHMENT



 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## SUB-SECTIONS





#### SUB-SECTIONS

1. DALY RIVER
  - a. Estuary
  - b. Below Douglas River
  - c. Below Fergusson River
  - d. Below Katherine River
2. CHILLING & MULDIVA CREEKS
3. HAYWARD CREEK
4. FISH RIVER
5. BAMBOO (MOON BOON) CREEK
6. GREEN ANT CREEK
7. DOUGLAS RIVER
8. HAYES CREEK
9. MIDDLE CREEK
10. STRAY CREEK
11. BRADSHAW CREEK
12. DEAD HORSE CREEK
13. FERGUSSON RIVER
  - a. Below Edith River
  - b. Above Edith River
14. EDITH RIVER
15. EIGHT MILE CREEK
16. CULLEN RIVER & COPPERFIELD CREEK
17. FLORA RIVER & HAYWARD CREEK
18. MATHISON & AROONA CREEKS
19. KATHERINE RIVER
  - a. Below King River
  - b. Below Seventeen Mile Creek
  - c. Below Grace and Fanny Creeks
  - d. Below Birdie Creek
  - e. Upper Katherine River
20. LIMESTONE & SCOTT CREEKS
21. KING RIVER
  - a. Below Dry River
  - b. Above Dry River
22. DRY RIVER
23. DURRINYAN CREEK
24. SEVENTEEN MILE CREEK

Stream Order	Stream Length (kms - approx)	No of sites
1	8,114	5
2	3,955	8
3	2,072	25
4	841	32
5	426	17
6	213	13
7	362	31

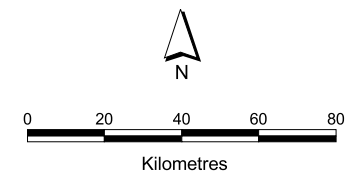
#### LEGEND

- Catchment Boundary
- Sub-catchment Boundary
- - - Sub-section Boundary

#### NOTE

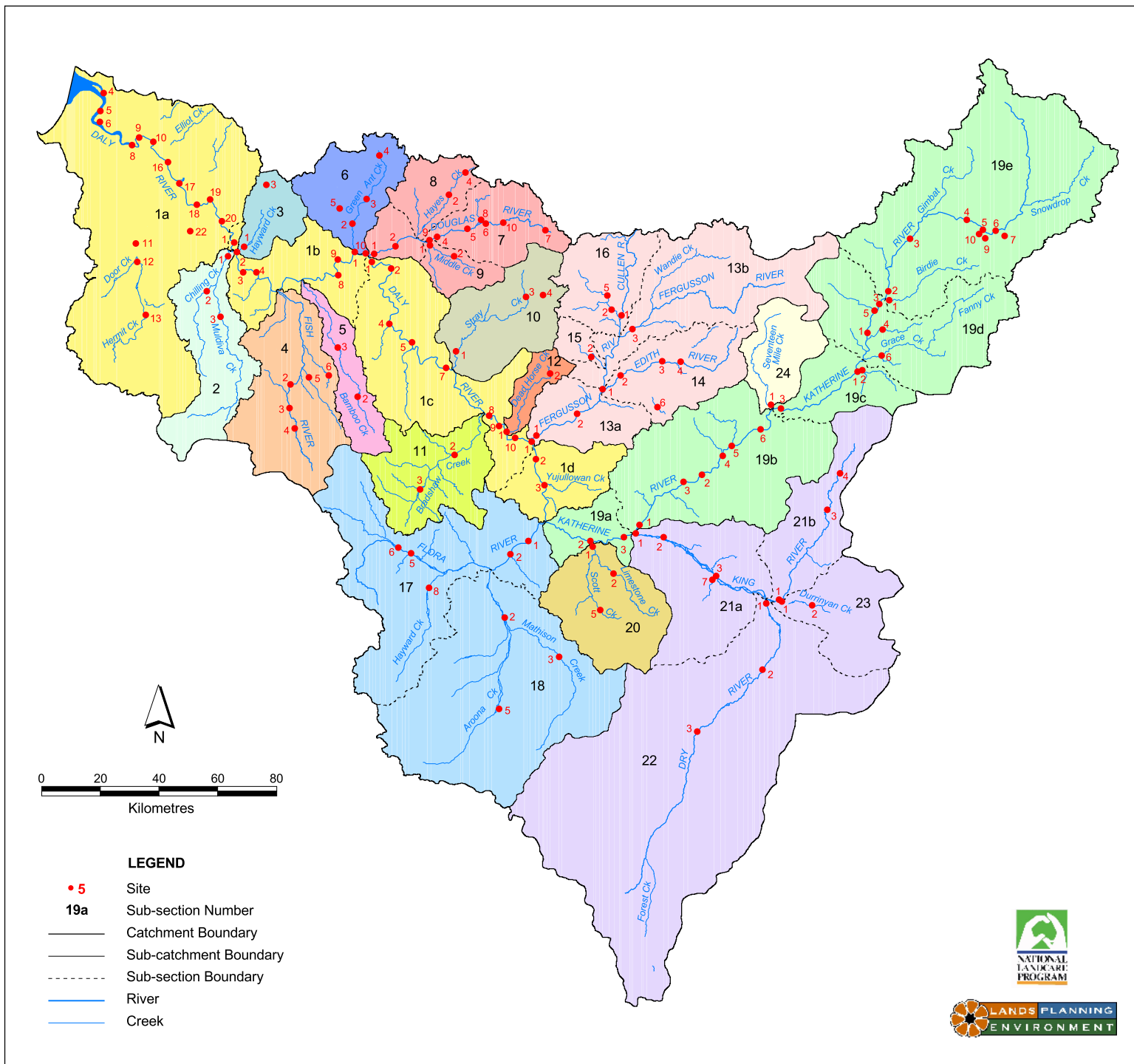
Stream orders were compiled using ArcGrid. The stream network was generated using a Digital Elevation Model (DEM) and was based on a 1:250,000 map scale. Stream orders have been assigned to rivers and creeks using the Strahler system. Seven stream orders were recorded for Daly River Catchment.

- Minor streams = stream orders 1 and 2.
- Medium - sized streams = stream orders 3, 4 and 5.
- Major streams = stream orders 6 and 7.



 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## STREAM ORDERS



- | SUB SECTION NUMBER | SUB SECTION NAME  |
|--------------------|---|
| 1.                 | DALY RIVER<br>a. Estuary<br>b. Below Douglas River<br>c. Below Fergusson River<br>d. Below Katherine River  |
| 2.                 | CHILLING & MULDIVA CREEKS   |
| 3.                 | HAYWARD CREEK   |
| 4.                 | FISH RIVER  |
| 5.                 | BAMBOO (MOON BOON) CREEK  |
| 6.                 | GREEN ANT CREEK   |
| 7.                 | DOUGLAS RIVER   |
| 8.                 | HAYES CREEK   |
| 9.                 | MIDDLE CREEK  |
| 10.                | STRAY CREEK   |
| 11.                | BRADSHAW CREEK  |
| 12.                | DEAD HORSE CREEK  |
| 13.                | FERGUSSON RIVER<br>a. Below Edith River<br>b. Above Edith River   |
| 14.                | EDITH RIVER   |
| 15.                | EIGHT MILE CREEK  |
| 16.                | CULLEN RIVER & COPPERFIELD CK   |
| 17.                | FLORA RIVER & HAYWARD CK  |
| 18.                | MATHISON & AROONA CKS   |
| 19.                | KATHERINE RIVER<br>a. Below King River<br>b. Below Seventeen Mile Creek<br>c. Below Grace and Fanny Creeks<br>d. Below Birdie Creek<br>e. Upper Katherine River |
| 20.                | LIMESTONE & SCOTT CREEKS  |
| 21.                | KING RIVER<br>a. Below Dry River<br>b. Above Dry River  |
| 22.                | DRY RIVER   |
| 23.                | DURRINYAN CREEK   |
| 24.                | SEVENTEEN MILE CREEK  |

 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## LOCATION OF SITES

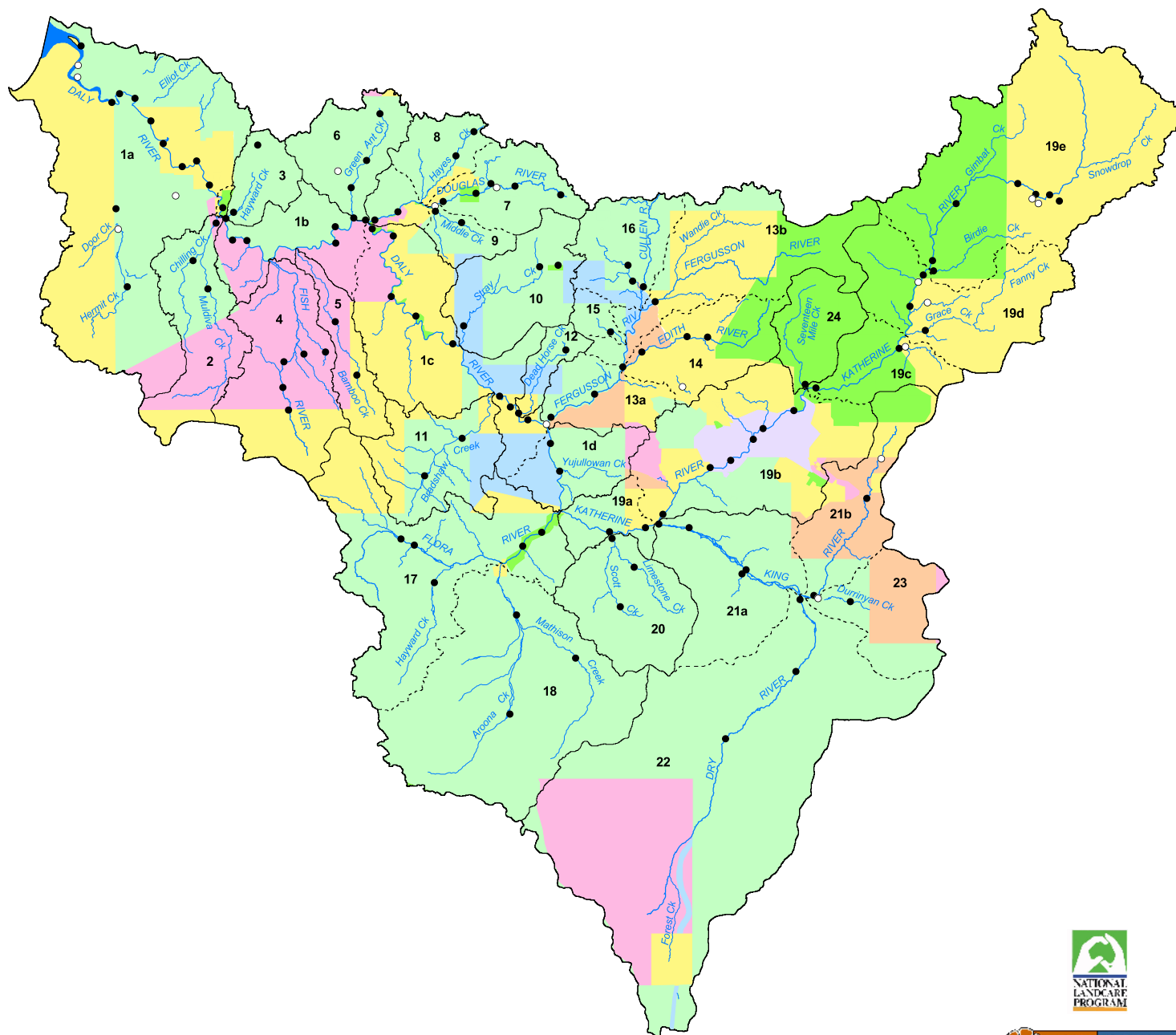




## ASSESSMENT OF RIVERINE CONDITION MAP SERIES

This document displays the following map series relating to the riverine condition as outlined in the report, *Daly River Catchment, Part 1 - An Assessment of the Physical and Ecological Condition of the Daly River and its Major Tributaries*








Map 10	Local Land Tenure
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 <i>Passiflora foetida</i>
Map 19	Cover and Distribution of <i>Hyptis suaveolens</i>
Map 20	Cover and Distribution of <i>Xanthium occidentale</i>
Map 21	Cover and Distribution of Submerged Aquatic Vegetation
Map 22	Cover and Distribution of Emergent Aquatic Vegetation
Map 23	Cover and Diversity of Instream and Bank Habitats
Map 24	Overall Condition
Map 25	Flow Gauge Stations, Monitoring Bores and Springs
Map 26	Water Quality Sampling Points



#### LAND CLASSIFICATION

-  Katherine Municipal Boundary
-  National Park or Reserve
-  Pastoral Lease
-  Vacant Crown Land
-  Private Freehold
-  Crown Lease Term
-  Crown Lease Perpetual

#### LEGEND

-  Surveyed Site
-  Site Not Assessed
- 19a** 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:

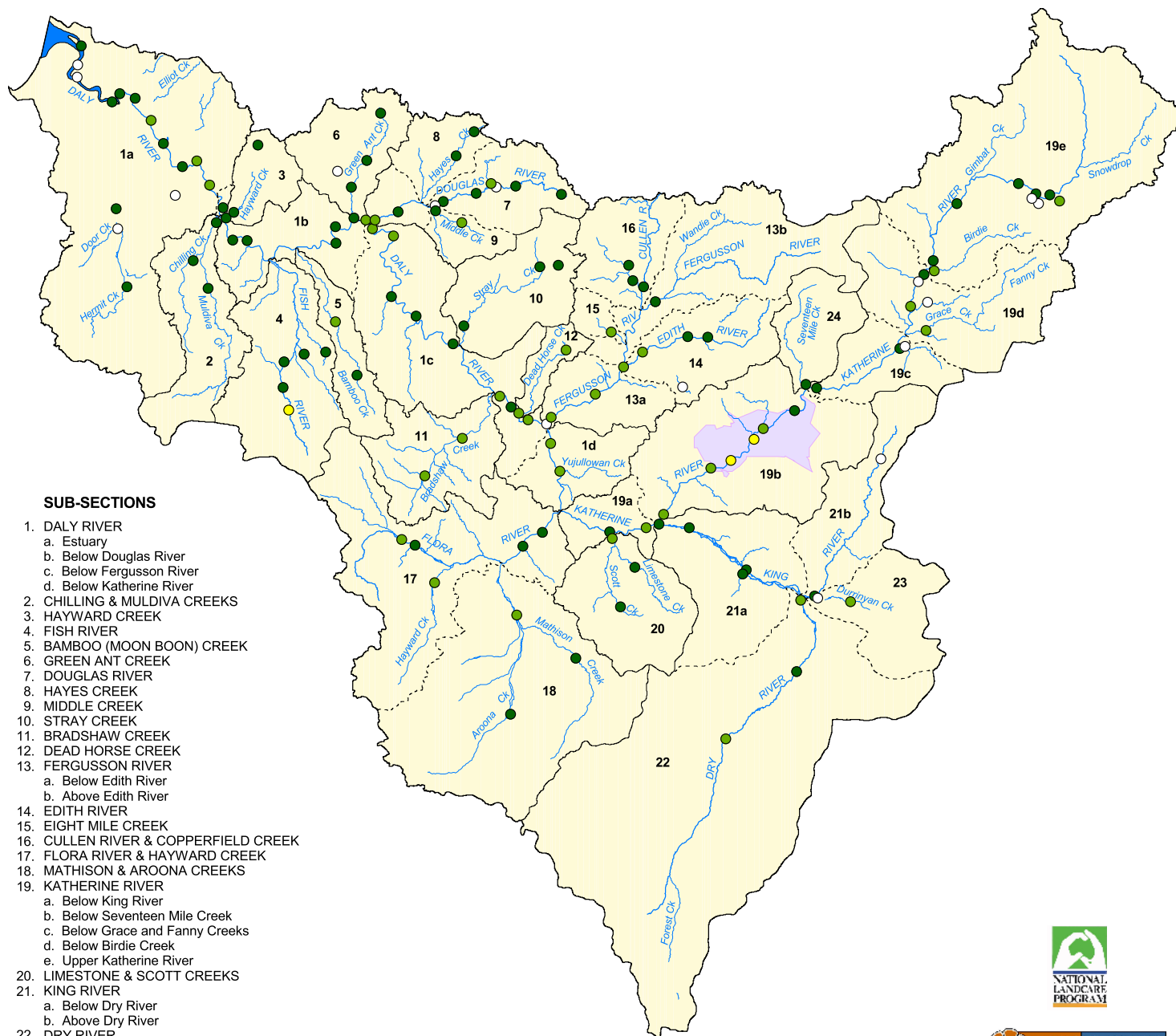
Land Tenure Category	Percent of Sites (%)
Freehold/Leasehold	90
Urban Reserve	1
State Forest	0
Reserve/ Environmental Park	6
State Park	0
National Park	8



 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## LOCAL LAND TENURE





#### SUB-SECTIONS

1. DALY RIVER
  - a. Estuary
  - b. Below Douglas River
  - c. Below Fergusson River
  - d. Below Katherine River
2. CHILLING & MULDIVA CREEKS
3. HAYWARD CREEK
4. FISH RIVER
5. BAMBOO (MOON BOON) CREEK
6. GREEN ANT CREEK
7. DOUGLAS RIVER
8. HAYES CREEK
9. MIDDLE CREEK
10. STRAY CREEK
11. BRADSHAW CREEK
12. DEAD HORSE CREEK
13. FERGUSSON RIVER
  - a. Below Edith River
  - b. Above Edith River
14. EDITH RIVER
15. EIGHT MILE CREEK
16. CULLEN RIVER & COPPERFIELD CREEK
17. FLORA RIVER & HAYWARD CREEK
18. MATHISON & AROONA CREEKS
19. KATHERINE RIVER
  - a. Below King River
  - b. Below Seventeen Mile Creek
  - c. Below Grace and Fanny Creeks
  - d. Below Birdie Creek
  - e. Upper Katherine River
20. LIMESTONE & SCOTT CREEKS
21. KING RIVER
  - a. Below Dry River
  - b. Above Dry River
22. DRY RIVER
23. DURRINYAN CREEK
24. SEVENTEEN MILE CREEK

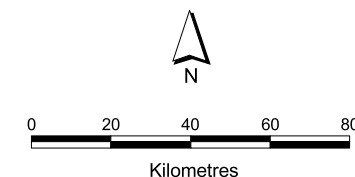
#### LEGEND

SITE LOCATION	REACH ENVIRONS CATEGORY	RATING (%)
<span style="color: red;">●</span>	Extreme Modification	0 - 20
<span style="color: orange;">●</span>	Major Modification	21- 40
<span style="color: yellow;">●</span>	Moderate Modification	41- 60
<span style="color: green;">●</span>	Some Modification	61- 80
<span style="color: darkgreen;">●</span>	Essentially Natural	81-100
<span style="color: white;">○</span>	Site Not Assessed	

19a	Sub-section Number
<span style="border-bottom: 1px solid black; width: 50px; display: inline-block;"></span>	Catchment Boundary
<span style="border-bottom: 1px dashed black; width: 50px; display: inline-block;"></span>	Sub-catchment Boundary
<span style="border-bottom: 1px dashed black; width: 50px; display: inline-block;"></span>	Sub-section Boundary
<span style="color: blue;">—</span>	River
<span style="color: lightblue;">—</span>	Creek
<span style="background-color: #f0f0f0; width: 20px; height: 10px; display: inline-block;"></span>	Katherine Municipal Boundary

#### 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.



 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## STATE OF THE REACH ENVIRONS

Map 11



#### SUB-SECTIONS

1. DALY RIVER
  - a. Estuary
  - b. Below Douglas River
  - c. Below Fergusson River
  - d. Below Katherine River
2. CHILLING & MULDIVA CREEKS
3. HAYWARD CREEK
4. FISH RIVER
5. BAMBOO (MOON BOON) CREEK
6. GREEN ANT CREEK
7. DOUGLAS RIVER
8. HAYES CREEK
9. MIDDLE CREEK
10. STRAY CREEK
11. BRADSHAW CREEK
12. DEAD HORSE CREEK
13. FERGUSSON RIVER
  - a. Below Edith River
  - b. Above Edith River
14. EDITH RIVER
15. EIGHT MILE CREEK
16. CULLEN RIVER & COPPERFIELD CREEK
17. FLORA RIVER & HAYWARD CREEK
18. MATHISON & AROONA CREEKS
19. KATHERINE RIVER
  - a. Below King River
  - b. Below Seventeen Mile Creek
  - c. Below Grace and Fanny Creeks
  - d. Below Birdie Creek
  - e. Upper Katherine River
20. LIMESTONE & SCOTT CREEKS
21. KING RIVER
  - a. Below Dry River
  - b. Above Dry River
22. DRY RIVER
23. DURRINYAN CREEK
24. SEVENTEEN MILE CREEK

#### LEGEND

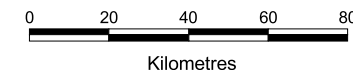
SITE LOCATION	DIVERSITY CATEGORY	RATING (out of 10)
<span style="color: red;">●</span>	Very Low Diversity	1 - 2
<span style="color: orange;">●</span>	Low Diversity	3 - 4
<span style="color: yellow;">●</span>	Moderate Diversity	5 - 6
<span style="color: green;">●</span>	High Diversity	7 - 8
<span style="color: darkgreen;">●</span>	Very High Diversity	9 - 10
<span style="color: white;">○</span>	Site Not Assessed	

<b>19a</b>	Sub-section Number
<span style="border: 1px solid black; display: inline-block; width: 20px; height: 2px;"></span>	Catchment Boundary
<span style="border: 1px solid black; display: inline-block; width: 20px; height: 1px;"></span>	Sub-catchment Boundary
<span style="border: 1px dashed black; display: inline-block; width: 20px; height: 1px;"></span>	Sub-section Boundary
<span style="color: blue;">—</span>	River
<span style="color: lightblue;">—</span>	Creek
<span style="background-color: #e6e6fa; display: inline-block; width: 20px; height: 10px;"></span>	Katherine Municipal Boundary

#### NOTE

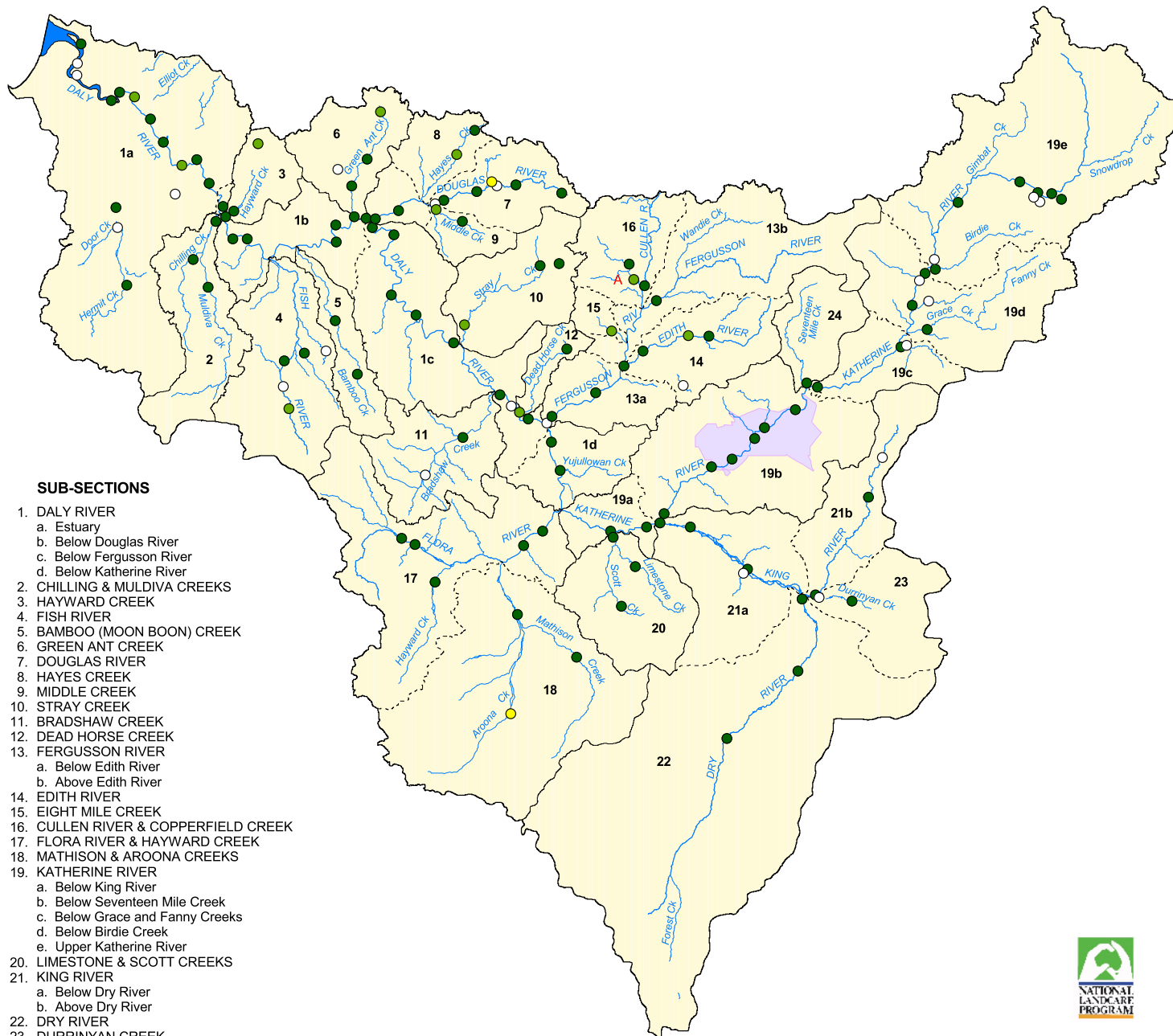
Channel Type Diversity -  
The diversity categories take into account the number of different channel habitat types present (cascades, glides, pools, rapids, riffles, runs, waterfalls) and the proportion of the reach occupied by pools versus other habitat types.

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



 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## CHANNEL TYPE DIVERSITY



#### SUB-SECTIONS

1. DALY RIVER
  - a. Estuary
  - b. Below Douglas River
  - c. Below Fergusson River
  - d. Below Katherine River
2. CHILLING & MULDIRA CREEKS
3. HAYWARD CREEK
4. FISH RIVER
5. BAMBOO (MOON BOON) CREEK
6. GREEN ANT CREEK
7. DOUGLAS RIVER
8. HAYES CREEK
9. MIDDLE CREEK
10. STRAY CREEK
11. BRADSHAW CREEK
12. DEAD HORSE CREEK
13. FERGUSSON RIVER
  - a. Below Edith River
  - b. Above Edith River
14. EDITH RIVER
15. EIGHT MILE CREEK
16. CULLEN RIVER & COPPERFIELD CREEK
17. FLORA RIVER & HAYWARD CREEK
18. MATHISON & AROONA CREEKS
19. KATHERINE RIVER
  - a. Below King River
  - b. Below Seventeen Mile Creek
  - c. Below Grace and Fanny Creeks
  - d. Below Birdie Creek
  - e. Upper Katherine River
20. LIMESTONE & SCOTT CREEKS
21. KING RIVER
  - a. Below Dry River
  - b. Above Dry River
22. DRY RIVER
23. DURRINYAN CREEK
24. SEVENTEEN MILE CREEK

#### LEGEND

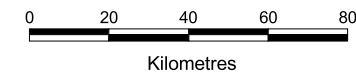
SITE LOCATION	STABILITY CATEGORY	RATING (%)
<span style="color: red;">●</span>	Extreme Instability	0 - 20
<span style="color: orange;">●</span>	Extensive Instability	21- 40
<span style="color: yellow;">●</span>	Moderate Instability	41- 60
<span style="color: green;">●</span>	Limited Instability	61- 80
<span style="color: darkgreen;">●</span>	Stable	81-100
<span style="color: white;">○</span>	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)
- 19a Sub-section Number
- Catchment Boundary
- Sub-catchment Boundary
- Sub-section Boundary
- River
- Creek
- Katherine Municipal Boundary

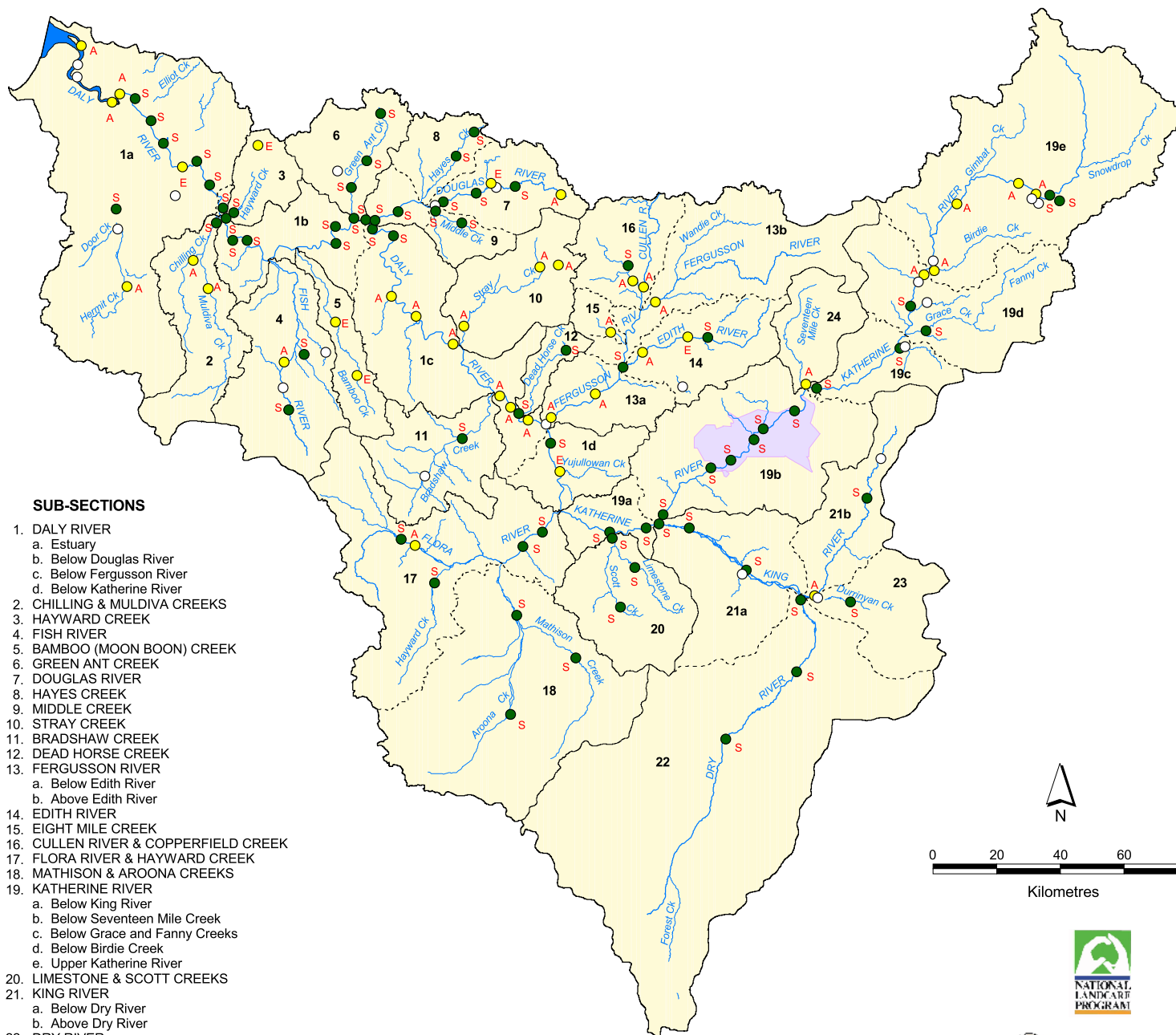
#### NOTE

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.



TOP END WATERWAYS PROJECT  
 DALY RIVER CATCHMENT

## BANK STABILITY



#### SUB-SECTIONS

1. DALY RIVER
  - a. Estuary
  - b. Below Douglas River
  - c. Below Fergusson River
  - d. Below Katherine River
2. CHILLING & MULDIVA CREEKS
3. HAYWARD CREEK
4. FISH RIVER
5. BAMBOO (MOON BOON) CREEK
6. GREEN ANT CREEK
7. DOUGLAS RIVER
8. HAYES CREEK
9. MIDDLE CREEK
10. STRAY CREEK
11. BRADSHAW CREEK
12. DEAD HORSE CREEK
13. FERGUSSON RIVER
  - a. Below Edith River
  - b. Above Edith River
14. EDITH RIVER
15. EIGHT MILE CREEK
16. CULLEN RIVER & COPPERFIELD CREEK
17. FLORA RIVER & HAYWARD CREEK
18. MATHISON & AROONA CREEKS
19. KATHERINE RIVER
  - a. Below King River
  - b. Below Seventeen Mile Creek
  - c. Below Grace and Fanny Creeks
  - d. Below Birdie Creek
  - e. Upper Katherine River
20. LIMESTONE & SCOTT CREEKS
21. KING RIVER
  - a. Below Dry River
  - b. Above Dry River
22. DRY RIVER
23. DURRINYAN CREEK
24. SEVENTEEN MILE CREEK

#### LEGEND

SITE LOCATION	STABILITY CATEGORY	RATING (out of 10)
<span style="color: red;">●</span>	Severe Erosion or Aggradation	2
<span style="color: yellow;">●</span>	Moderate Erosion or Aggradation	6
<span style="color: green;">●</span>	Stable	10
<span style="color: white;">○</span>	Site Not Assessed	

#### DOMINANT PROCESS AT EACH SITE

- A Aggradation
- E Erosion
- S Stable (No Process)

- 19a** Sub-section Number
- Catchment Boundary
- Sub-catchment Boundary
- Sub-section Boundary
- River
- Creek
- Katherine Municipal Boundary

#### NOTE

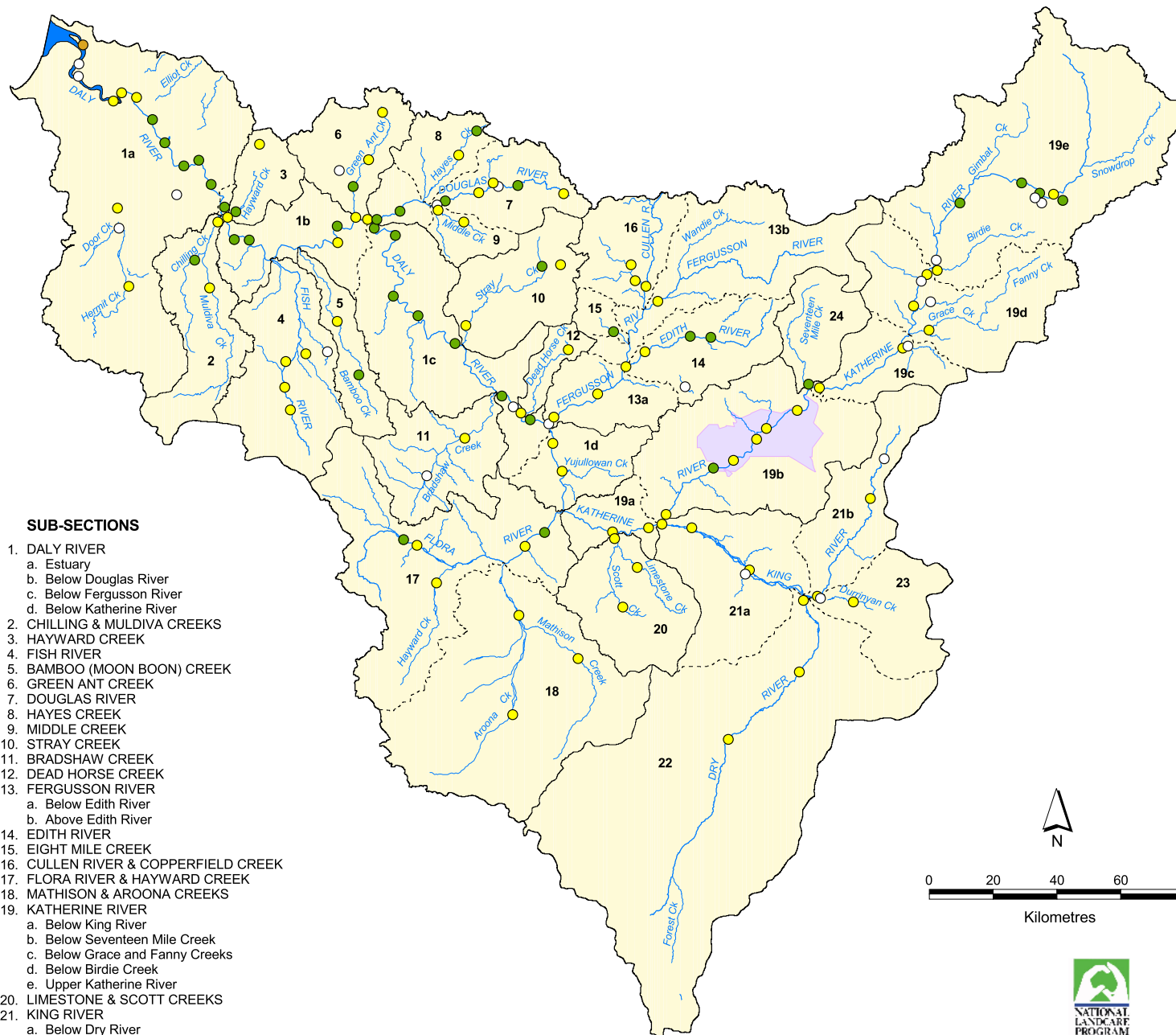
Bed Stability -  
The ratings are determined from a subjective assessment made in the field of whether the river bed is stable; moderately eroding or aggrading; or severely eroding or aggrading. That is,

- **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  
DALY RIVER CATCHMENT

## BED STABILITY





#### SUB-SECTIONS

1. DALY RIVER
  - a. Estuary
  - b. Below Douglas River
  - c. Below Fergusson River
  - d. Below Katherine River
2. CHILLING & MULDIVA CREEKS
3. HAYWARD CREEK
4. FISH RIVER
5. BAMBOO (MOON BOON) CREEK
6. GREEN ANT CREEK
7. DOUGLAS RIVER
8. HAYES CREEK
9. MIDDLE CREEK
10. STRAY CREEK
11. BRADSHAW CREEK
12. DEAD HORSE CREEK
13. FERGUSSON RIVER
  - a. Below Edith River
  - b. Above Edith River
14. EDITH RIVER
15. EIGHT MILE CREEK
16. CULLEN RIVER & COPPERFIELD CREEK
17. FLORA RIVER & HAYWARD CREEK
18. MATHISON & AROONA CREEKS
19. KATHERINE RIVER
  - a. Below King River
  - b. Below Seventeen Mile Creek
  - c. Below Grace and Fanny Creeks
  - d. Below Birdie Creek
  - e. Upper Katherine River
20. LIMESTONE & SCOTT CREEKS
21. KING RIVER
  - a. Below Dry River
  - b. Above Dry River
22. DRY RIVER
23. DURRYNAN CREEK
24. SEVENTEEN MILE CREEK

#### LEGEND

SITE LOCATION	RIPARIAN VEGETATION CATEGORY	RATING (out of 10)
<span style="color: red;">●</span>	Very Low Cover/Diversity	1 - 2
<span style="color: orange;">●</span>	Low Cover/Diversity	3 - 4
<span style="color: yellow;">●</span>	Moderate Cover/Diversity	5 - 6
<span style="color: green;">●</span>	High Cover/Diversity	7 - 8
<span style="color: darkgreen;">●</span>	Very High Cover/Diversity	9 - 10
<span style="color: white;">○</span>	Site Not Assessed	

<b>19a</b>	Sub-section Number
<span style="border: 1px solid black; display: inline-block; width: 20px; height: 1px;"></span>	Catchment Boundary
<span style="border: 1px dashed black; display: inline-block; width: 20px; height: 1px;"></span>	Sub-catchment Boundary
<span style="border: 1px dashed black; display: inline-block; width: 20px; height: 1px;"></span>	Sub-section Boundary
<span style="color: blue;">—</span>	River
<span style="color: blue;">—</span>	Creek
<span style="background-color: #e0e0ff; display: inline-block; width: 20px; height: 10px;"></span>	Katherine Municipal Boundary

#### 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 ).



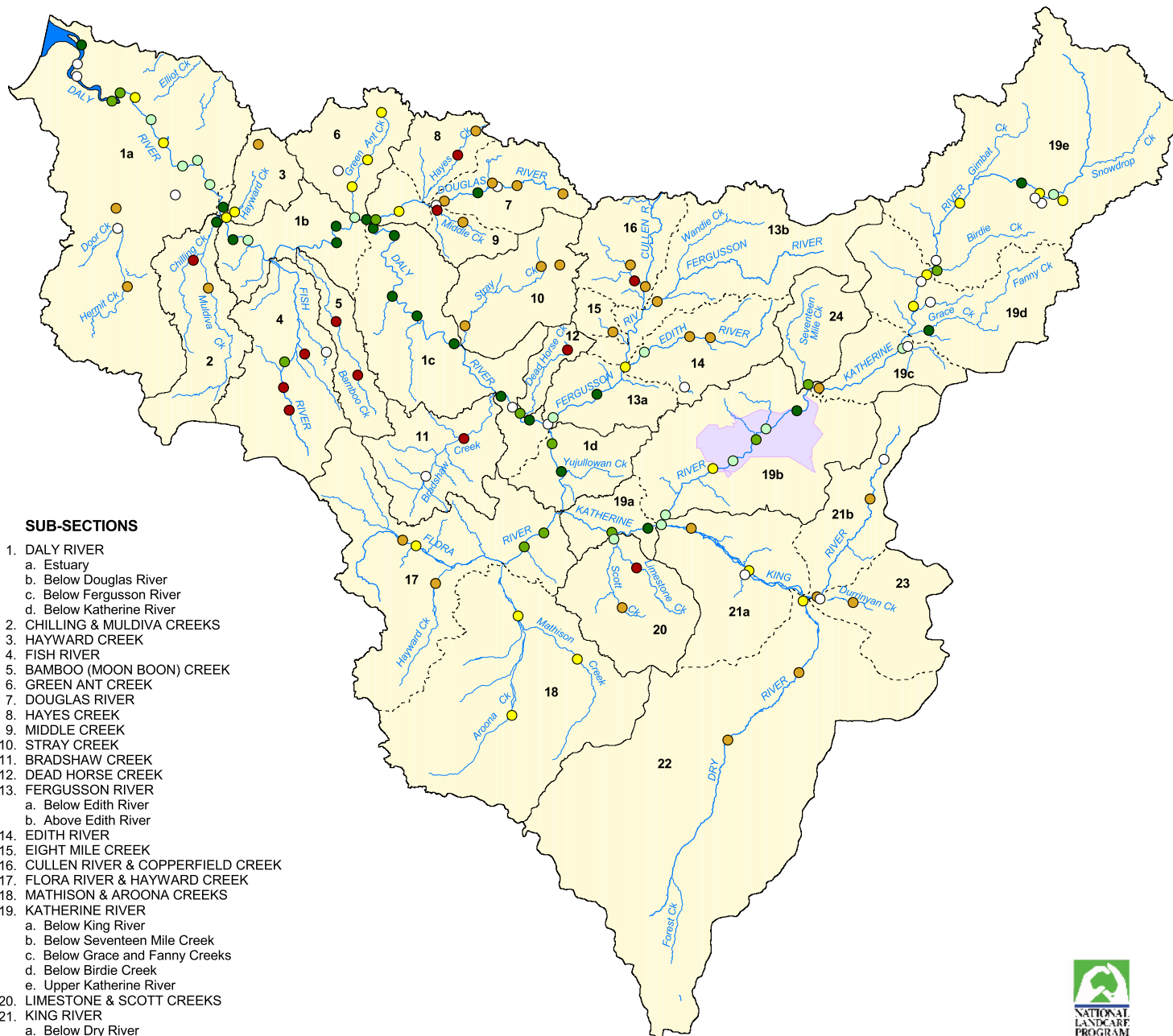
0 20 40 60 80  
Kilometres

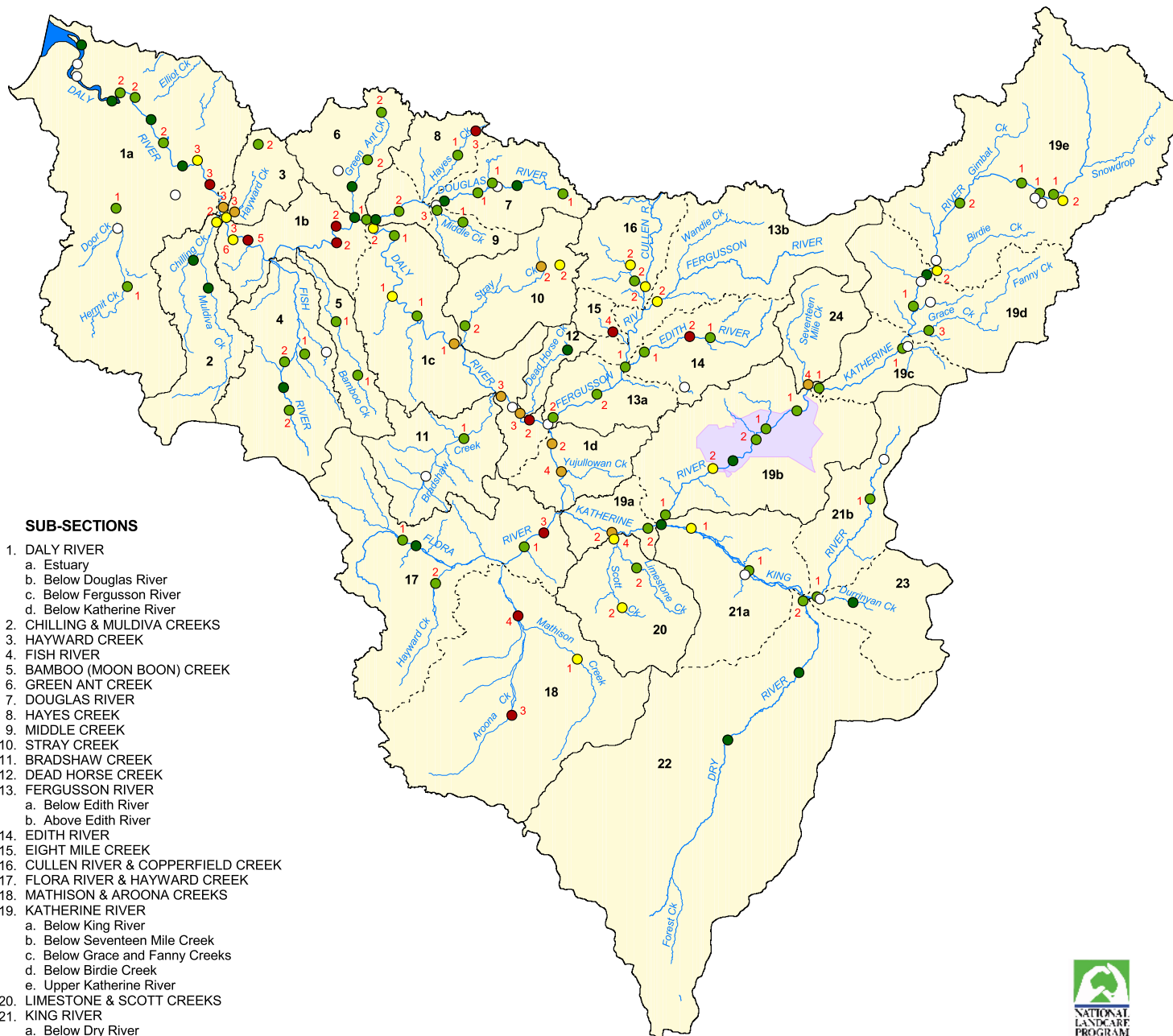


 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

**COVER AND STRUCTURAL  
DIVERSITY OF RIPARIAN  
VEGETATION**

Map 15





#### SUB-SECTIONS

1. DALY RIVER
  - a. Estuary
  - b. Below Douglas River
  - c. Below Fergusson River
  - d. Below Katherine River
2. CHILLING & MULDIRA CREEKS
3. HAYWARD CREEK
4. FISH RIVER
5. BAMBOO (MOON BOON) CREEK
6. GREEN ANT CREEK
7. DOUGLAS RIVER
8. HAYES CREEK
9. MIDDLE CREEK
10. STRAY CREEK
11. BRADSHAW CREEK
12. DEAD HORSE CREEK
13. FERGUSSON RIVER
  - a. Below Edith River
  - b. Above Edith River
14. EDITH RIVER
15. EIGHT MILE CREEK
16. CULLEN RIVER & COPPERFIELD CREEK
17. FLORA RIVER & HAYWARD CREEK
18. MATHISON & AROONA CREEKS
19. KATHERINE RIVER
  - a. Below King River
  - b. Below Seventeen Mile Creek
  - c. Below Grace and Fanny Creeks
  - d. Below Birdie Creek
  - e. Upper Katherine River
20. LIMESTONE & SCOTT CREEKS
21. KING RIVER
  - a. Below Dry River
  - b. Above Dry River
22. DRY RIVER
23. DURRINYAN CREEK
24. SEVENTEEN MILE CREEK

#### LEGEND

SITE LOCATION	% COVER CATEGORY	RATING (out of 10)
<span style="color: red;">●</span>	16-32*	2
<span style="color: orange;">●</span>	11-15	4
<span style="color: yellow;">●</span>	6-10	6
<span style="color: lightgreen;">●</span>	1-5	8
<span style="color: green;">●</span>	0	10
<span style="color: white;">○</span>	Site Not Assessed	

#### NUMBER OF TYPES OF EXOTIC SPECIES

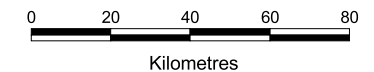
**1 - 6** The number of different types of exotic species recorded at a site, if present.

- 19a** Sub-section Number
- Catchment Boundary
- Sub-catchment Boundary
- - - Sub-section Boundary
- River
- Creek
- Katherine Municipal Boundary

#### 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.

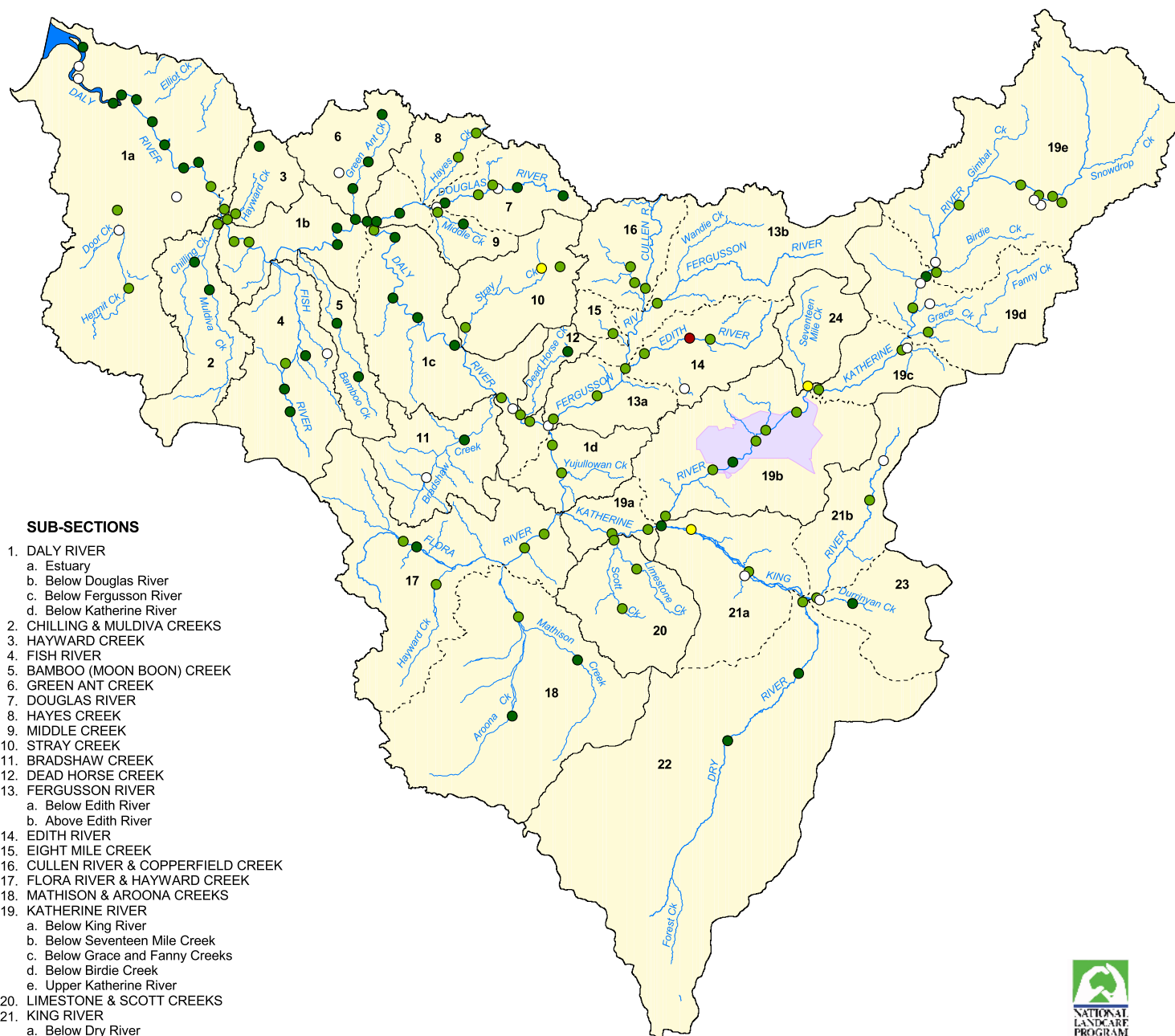
\* The maximum percentage cover recorded for exotic riparian vegetation was 32%.



TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## COVER OF EXOTIC RIPARIAN VEGETATION

Map 17



#### SUB-SECTIONS

1. DALY RIVER
  - a. Estuary
  - b. Below Douglas River
  - c. Below Fergusson River
  - d. Below Katherine River
2. CHILLING & MULDIVA CREEKS
3. HAYWARD CREEK
4. FISH RIVER
5. BAMBOO (MOON BOON) CREEK
6. GREEN ANT CREEK
7. DOUGLAS RIVER
8. HAYES CREEK
9. MIDDLE CREEK
10. STRAY CREEK
11. BRADSHAW CREEK
12. DEAD HORSE CREEK
13. FERGUSSON RIVER
  - a. Below Edith River
  - b. Above Edith River
14. EDITH RIVER
15. EIGHT MILE CREEK
16. CULLEN RIVER & COPPERFIELD CREEK
17. FLORA RIVER & HAYWARD CREEK
18. MATHISON & AROONA CREEKS
19. KATHERINE RIVER
  - a. Below King River
  - b. Below Seventeen Mile Creek
  - c. Below Grace and Fanny Creeks
  - d. Below Birdie Creek
  - e. Upper Katherine River
20. LIMESTONE & SCOTT CREEKS
21. KING RIVER
  - a. Below Dry River
  - b. Above Dry River
22. DRY RIVER
23. DURRINYAN CREEK
24. SEVENTEEN MILE CREEK

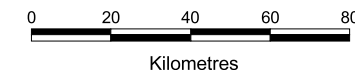
#### LEGEND

SITE LOCATION	% COVER CATEGORY
<span style="color: red;">●</span>	16-20*
<span style="color: orange;">●</span>	11-15
<span style="color: yellow;">●</span>	6-10
<span style="color: green;">●</span>	1-5
<span style="color: darkgreen;">●</span>	0
○	Site Not Assessed
19a	Sub-section Number
—	Catchment Boundary
- - -	Sub-catchment Boundary
—	River
—	Creek
■	Katherine Municipal Boundary

#### NOTE

*Passiflora foetida*, 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%.

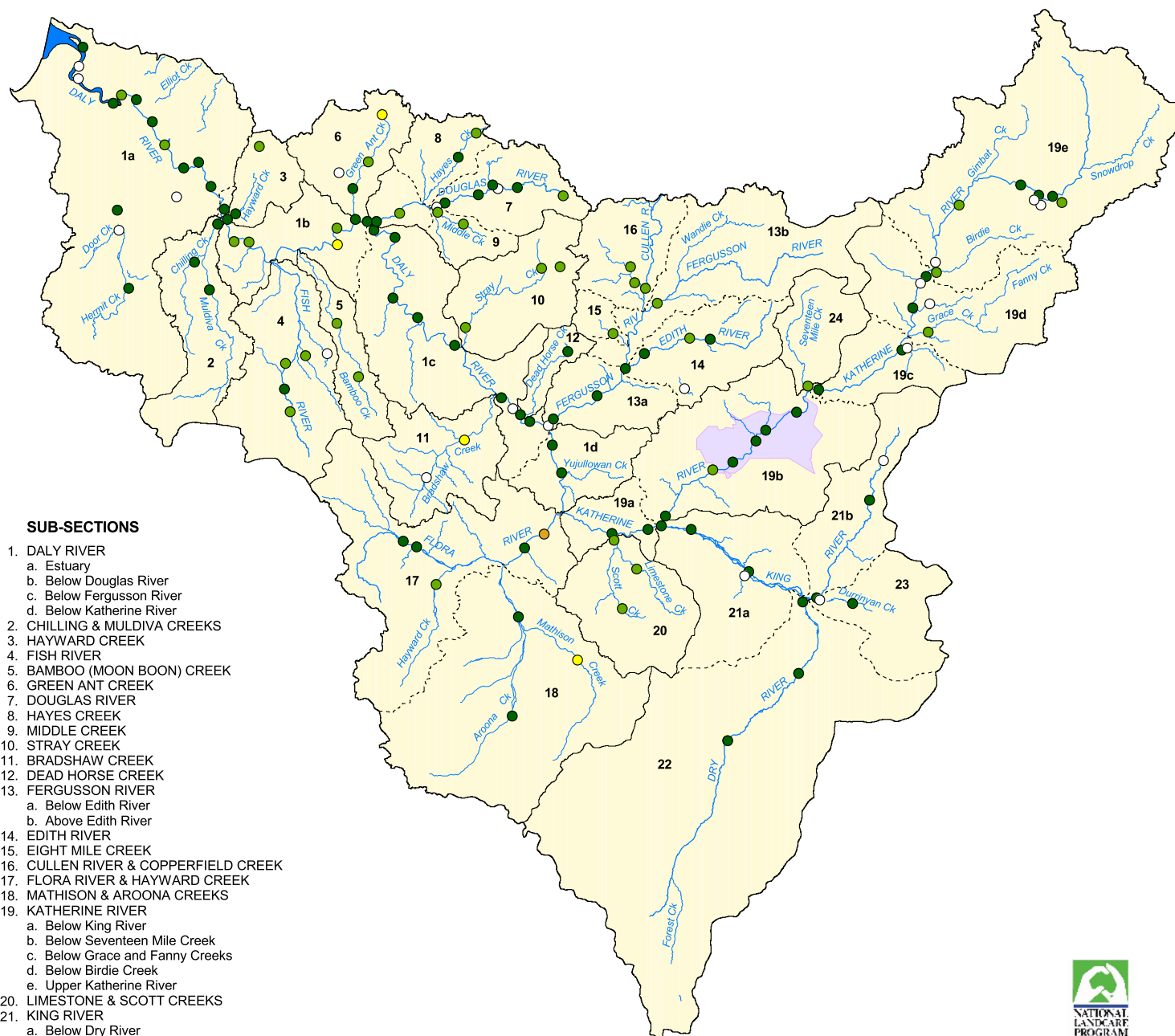


TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## COVER AND DISTRIBUTION OF *Passiflora foetida*

Map 18





#### SUB-SECTIONS

1. DALY RIVER
  - a. Estuary
  - b. Below Douglas River
  - c. Below Fergusson River
  - d. Below Katherine River
2. CHILLING & MULDIVA CREEKS
3. HAYWARD CREEK
4. FISH RIVER
5. BAMBOO (MOON BOON) CREEK
6. GREEN ANT CREEK
7. DOUGLAS RIVER
8. HAYES CREEK
9. MIDDLE CREEK
10. STRAY CREEK
11. BRADSHAW CREEK
12. DEAD HORSE CREEK
13. FERGUSSON RIVER
  - a. Below Edith River
  - b. Above Edith River
14. EDITH RIVER
15. EIGHT MILE CREEK
16. CULLEN RIVER & COPPERFIELD CREEK
17. FLORA RIVER & HAYWARD CREEK
18. MATHISON & AROONA CREEKS
19. KATHERINE RIVER
  - a. Below King River
  - b. Below Seventeen Mile Creek
  - c. Below Grace and Fanny Creeks
  - d. Below Birdie Creek
  - e. Upper Katherine River
20. LIMESTONE & SCOTT CREEKS
21. KING RIVER
  - a. Below Dry River
  - b. Above Dry River
22. DRY RIVER
23. DURRINYAN CREEK
24. SEVENTEEN MILE CREEK

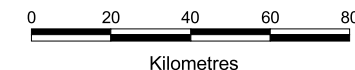
#### LEGEND

SITE LOCATION	% COVER CATEGORY *
<span style="color: red;">●</span>	> 15
<span style="color: orange;">●</span>	11-15
<span style="color: yellow;">●</span>	6-10
<span style="color: lightgreen;">●</span>	1-5
<span style="color: darkgreen;">●</span>	0
<span style="color: white;">○</span>	Site Not Assessed
19a	Sub-section Number
<span style="border: 1px solid black; display: inline-block; width: 20px; height: 2px;"></span>	Catchment Boundary
<span style="border: 1px dashed black; display: inline-block; width: 20px; height: 2px;"></span>	Sub-catchment Boundary
<span style="border: 1px dashed black; display: inline-block; width: 20px; height: 2px;"></span>	Sub-section Boundary
<span style="color: blue;">—</span>	River
<span style="color: lightblue;">—</span>	Creek
<span style="background-color: lightpurple; display: inline-block; width: 20px; height: 10px;"></span>	Katherine Municipal Boundary

#### NOTE

*Hyptis suaveolens*, 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.

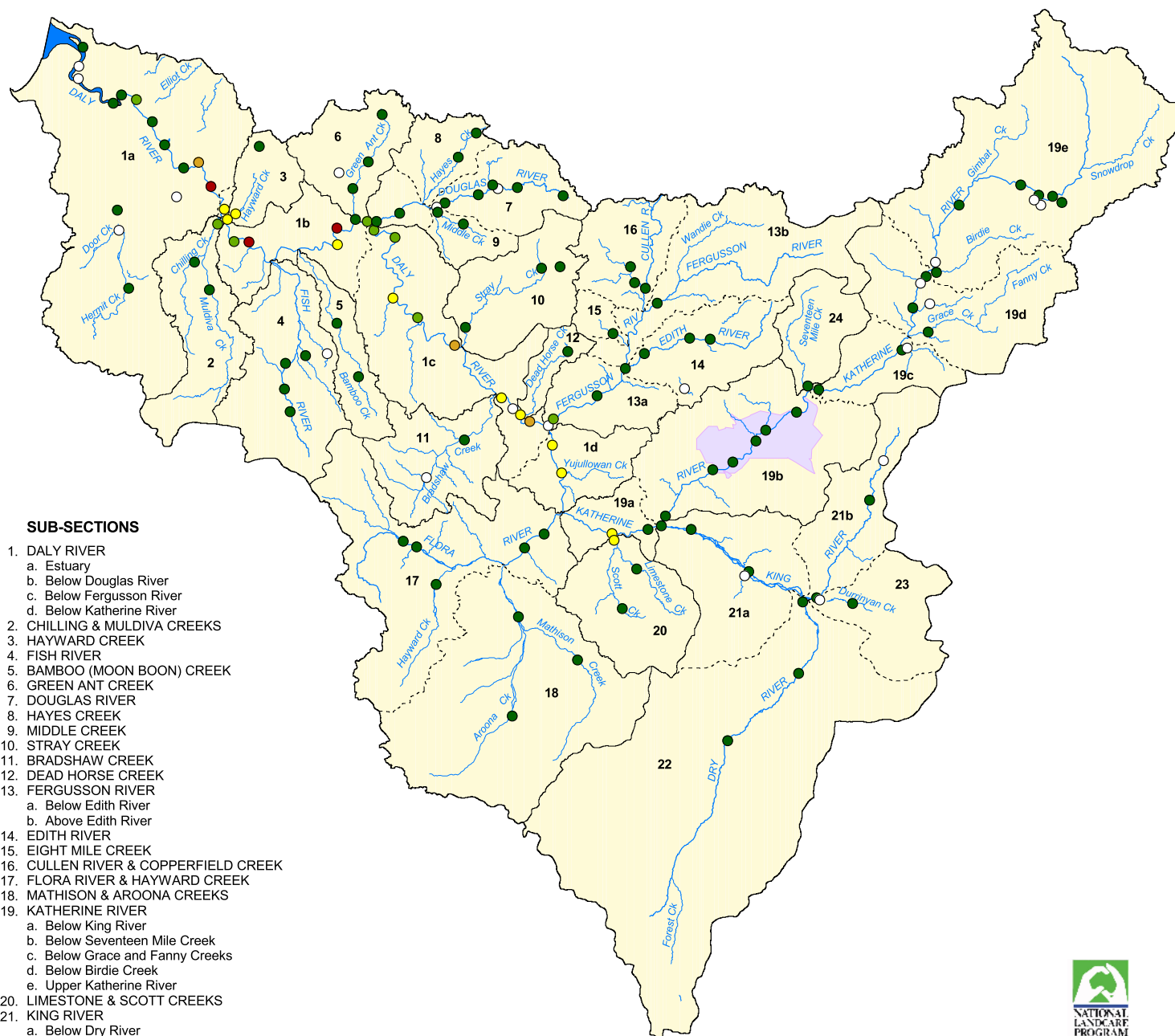
\* The maximum percentage cover recorded for *Hyptis suaveolens* was 11%.



TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## COVER AND DISTRIBUTION OF *Hyptis suaveolens*

Map 19



#### SUB-SECTIONS

1. DALY RIVER
  - a. Estuary
  - b. Below Douglas River
  - c. Below Fergusson River
  - d. Below Katherine River
2. CHILLING & MULDIVA CREEKS
3. HAYWARD CREEK
4. FISH RIVER
5. BAMBOO (MOON BOON) CREEK
6. GREEN ANT CREEK
7. DOUGLAS RIVER
8. HAYES CREEK
9. MIDDLE CREEK
10. STRAY CREEK
11. BRADSHAW CREEK
12. DEAD HORSE CREEK
13. FERGUSSON RIVER
  - a. Below Edith River
  - b. Above Edith River
14. EDITH RIVER
15. EIGHT MILE CREEK
16. CULLEN RIVER & COPPERFIELD CREEK
17. FLORA RIVER & HAYWARD CREEK
18. MATHISON & AROONA CREEKS
19. KATHERINE RIVER
  - a. Below King River
  - b. Below Seventeen Mile Creek
  - c. Below Grace and Fanny Creeks
  - d. Below Birdie Creek
  - e. Upper Katherine River
20. LIMESTONE & SCOTT CREEKS
21. KING RIVER
  - a. Below Dry River
  - b. Above Dry River
22. DRY RIVER
23. DURRINYAN CREEK
24. SEVENTEEN MILE CREEK

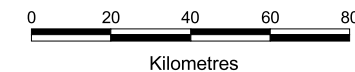
#### LEGEND

SITE LOCATION	% COVER CATEGORY
<span style="color: red;">●</span>	16-28*
<span style="color: orange;">●</span>	11-15
<span style="color: yellow;">●</span>	6-10
<span style="color: green;">●</span>	1-5
<span style="color: black;">●</span>	0
<span style="color: white;">○</span>	Site Not Assessed
19a	Sub-section Number
<span style="border: 1px solid black; display: inline-block; width: 20px; height: 2px;"></span>	Catchment Boundary
<span style="border: 1px dashed black; display: inline-block; width: 20px; height: 2px;"></span>	Sub-catchment Boundary
<span style="border: 1px dashed black; display: inline-block; width: 20px; height: 2px;"></span>	Sub-section Boundary
<span style="color: blue;">—</span>	River
<span style="color: blue;">—</span>	Creek
<span style="background-color: #e6e6fa; display: inline-block; width: 20px; height: 10px;"></span>	Katherine Municipal Boundary

#### NOTE

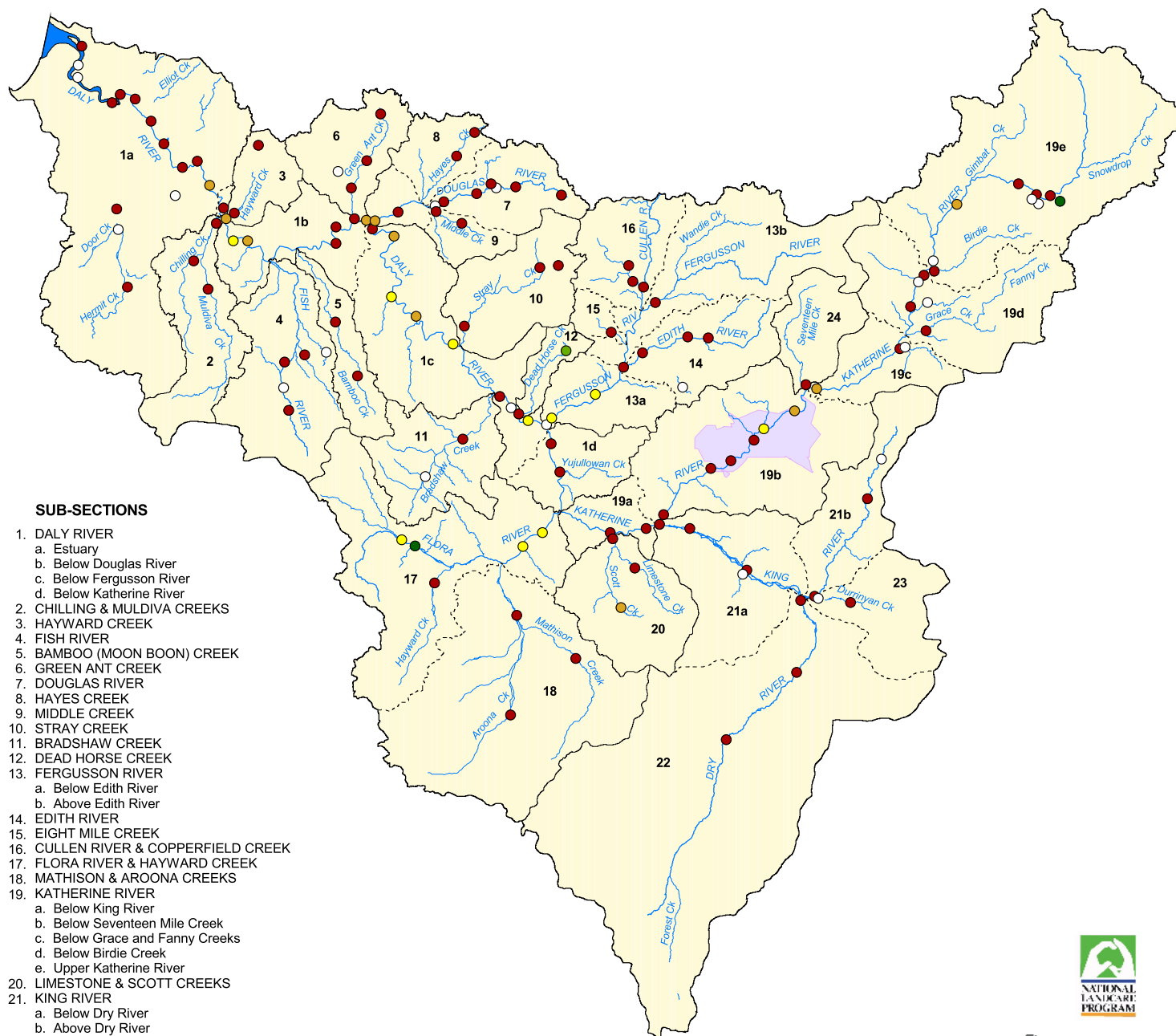
*Xanthium occidentale* (Noogoora Burr), a forb or sub-shrub, was the third major exotic species recorded throughout the catchment. Its distribution and the percentage cover recorded are shown. Percentage covers are averaged if the species is recorded for both river banks at a site.

\* The maximum percentage cover for *Xanthium occidentale* was 28%.



TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

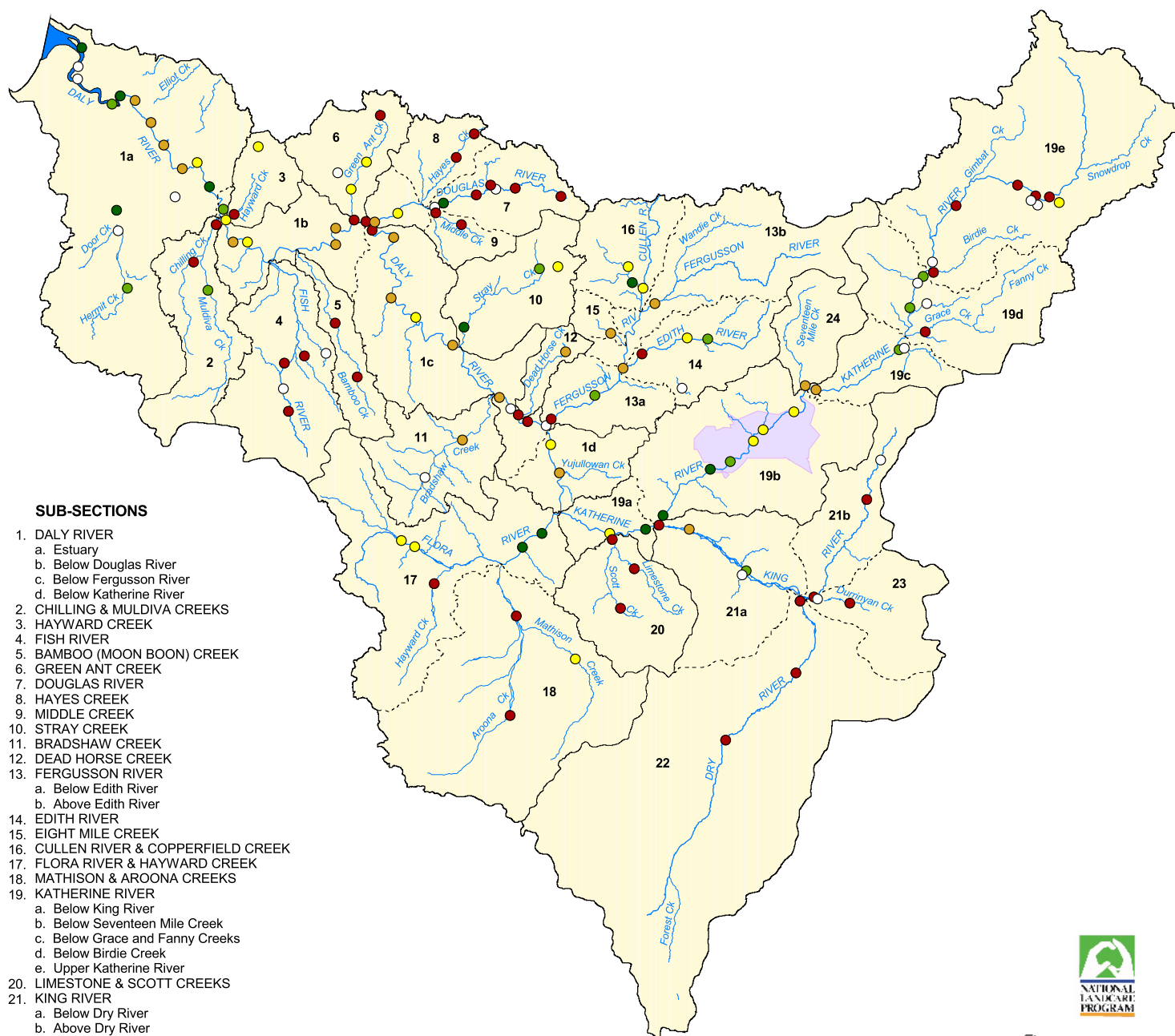
**COVER AND DISTRIBUTION**  
**OF *Xanthium occidentale***  
(Noogoora Burr) **Map 20**



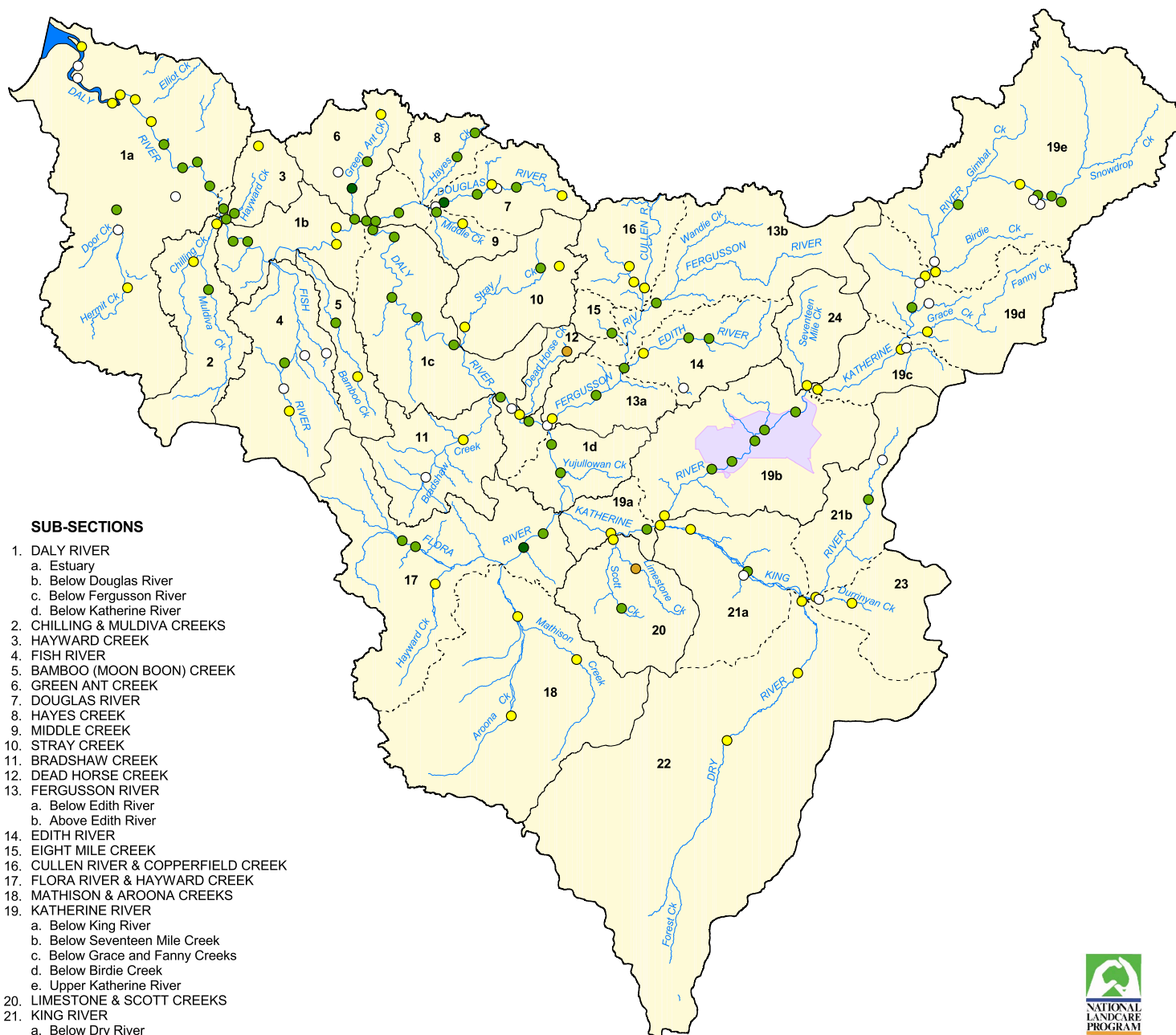
TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

**COVER AND DISTRIBUTION  
OF SUBMERGED AQUATIC  
VEGETATION**

Map 21







#### SUB-SECTIONS

1. DALY RIVER
  - a. Estuary
  - b. Below Douglas River
  - c. Below Fergusson River
  - d. Below Katherine River
2. CHILLING & MULDIVA CREEKS
3. HAYWARD CREEK
4. FISH RIVER
5. BAMBOO (MOON BOON) CREEK
6. GREEN ANT CREEK
7. DOUGLAS RIVER
8. HAYES CREEK
9. MIDDLE CREEK
10. STRAY CREEK
11. BRADSHAW CREEK
12. DEAD HORSE CREEK
13. FERGUSSON RIVER
  - a. Below Edith River
  - b. Above Edith River
14. EDITH RIVER
15. EIGHT MILE CREEK
16. CULLEN RIVER & COPPERFIELD CREEK
17. FLORA RIVER & HAYWARD CREEK
18. MATHISON & AROONA CREEKS
19. KATHERINE RIVER
  - a. Below King River
  - b. Below Seventeen Mile Creek
  - c. Below Grace and Fanny Creeks
  - d. Below Birdie Creek
  - e. Upper Katherine River
20. LIMESTONE & SCOTT CREEKS
21. KING RIVER
  - a. Below Dry River
  - b. Above Dry River
22. DRY RIVER
23. DURRINYAN CREEK
24. SEVENTEEN MILE CREEK

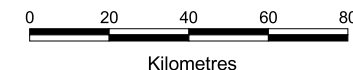
#### LEGEND

SITE LOCATION	INSTREAM / BANK HABITAT CATEGORY	RATING (%)
<span style="color: red;">●</span>	Very Low Cover/Diversity	0 - 20
<span style="color: orange;">●</span>	Low Cover/Diversity	21- 40
<span style="color: yellow;">●</span>	Moderate Cover/Diversity	41- 60
<span style="color: green;">●</span>	High Cover/Diversity	61- 80
<span style="color: darkgreen;">●</span>	Very High Cover/Diversity	81-100
<span style="color: white;">○</span>	Site Not Assessed	

19a	Sub-section Number
<span style="border: 1px solid black; display: inline-block; width: 20px; height: 2px;"></span>	Catchment Boundary
<span style="border: 1px solid black; display: inline-block; width: 20px; height: 1px;"></span>	Sub-catchment Boundary
<span style="border: 1px dashed black; display: inline-block; width: 20px; height: 1px;"></span>	Sub-section Boundary
<span style="color: blue;">—</span>	River
<span style="color: lightblue;">—</span>	Creek
<span style="background-color: purple; display: inline-block; width: 20px; height: 10px;"></span>	Katherine Municipal Boundary

#### NOTE

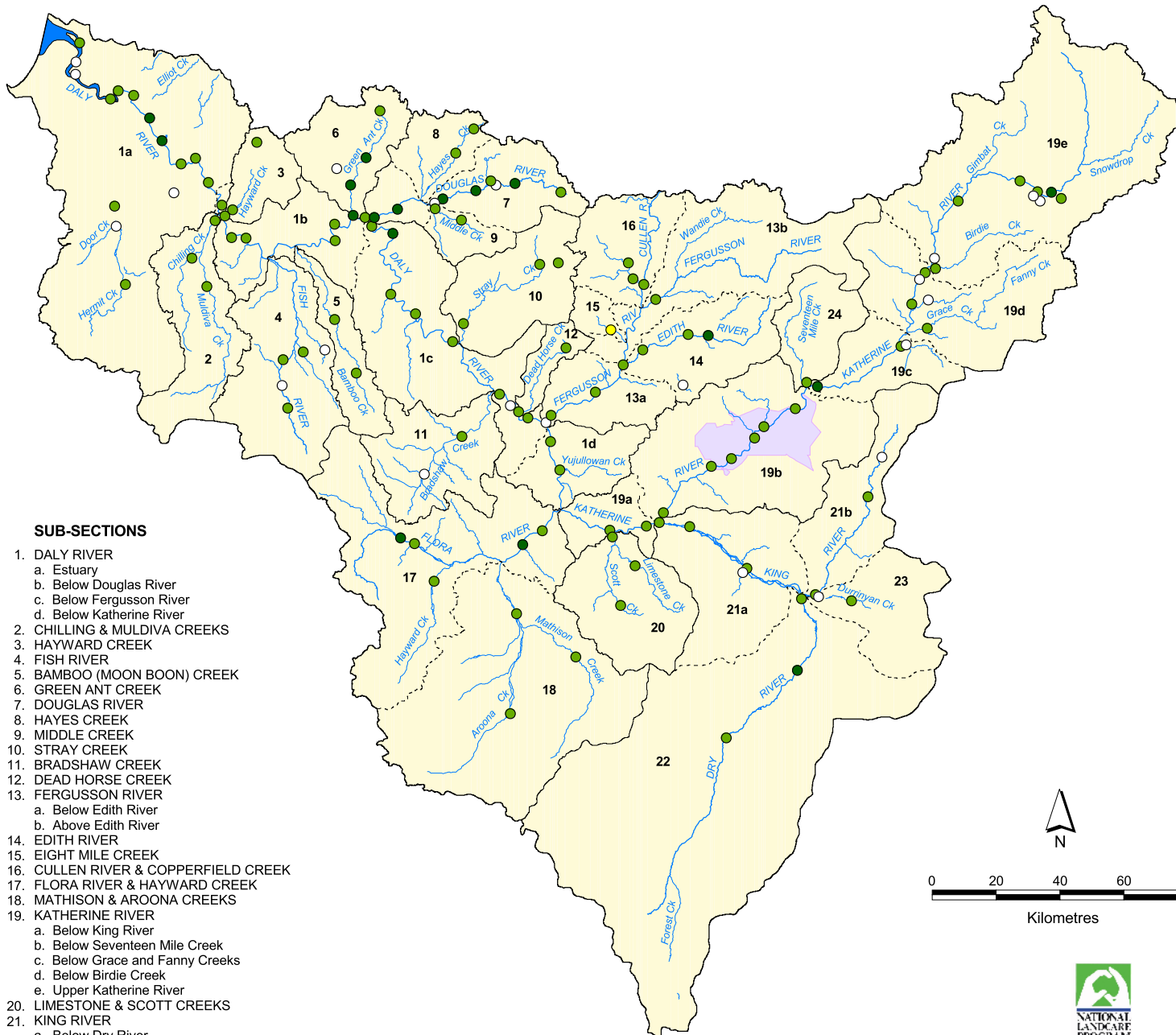
Cover and Diversity of Instream and Bank Habitats - The ratings are based on a combination of the cover and diversity provided by instream organic debris (logs, branches, leaves/twigs, etc), aquatic vegetation and other habitat types (such as rock, permanent pools) on the bed, as well as the cover and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



TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

**COVER AND DIVERSITY  
OF INSTREAM AND BANK  
HABITATS**

Map 23



#### SUB-SECTIONS

1. DALY RIVER
  - a. Estuary
  - b. Below Douglas River
  - c. Below Fergusson River
  - d. Below Katherine River
2. CHILLING & MULDIVA CREEKS
3. HAYWARD CREEK
4. FISH RIVER
5. BAMBOO (MOON BOON) CREEK
6. GREEN ANT CREEK
7. DOUGLAS RIVER
8. HAYES CREEK
9. MIDDLE CREEK
10. STRAY CREEK
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12. DEAD HORSE CREEK
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  - a. Below Edith River
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16. CULLEN RIVER & COPPERFIELD CREEK
17. FLORA RIVER & HAYWARD CREEK
18. MATHISON & AROONA CREEKS
19. KATHERINE RIVER
  - a. Below King River
  - b. Below Seventeen Mile Creek
  - c. Below Grace and Fanny Creeks
  - d. Below Birdie Creek
  - e. Upper Katherine River
20. LIMESTONE & SCOTT CREEKS
21. KING RIVER
  - a. Below Dry River
  - b. Above Dry River
22. DRY RIVER
23. DURRINYAN CREEK
24. SEVENTEEN MILE CREEK

#### LEGEND

SITE LOCATION	OVERALL CONDITION CATEGORY	RATING (%)
	Extreme Modification/Instability, Very Low Cover/Diversity or Very High Cover for Exotics	0 - 20
		21-40
		41 - 60
		61 - 80
	Essentially Natural/Stable, Very High Cover/Diversity or Exotics Absent/Negligible	81 - 100
	Site Not Assessed	
19a	Sub-section Number	
	Catchment Boundary	
	Sub-catchment Boundary	
	Sub-section Boundary	
	River	
	Creek	
	Katherine Municipal Boundary	

#### 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  
DALY RIVER CATCHMENT

## OVERALL CONDITION

Map 24





## LEGEND

- Flow Gauge Station - open
- Flow Gauge Station - closed
- G814003 Gauge Station Number
- (H) High Flow Station
- (T) Tide Station
- ▲ Spring
- Monitoring Bore
- 19a Sub-section Number
- Catchment Boundary
- River
- Creek
- Road
- Katherine Municipal Boundary

## OPEN FLOW GAUGE STATIONS

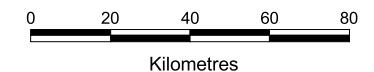
Station	Tributary	Location	Years Recording
G8140003	Daly River	At Police Station	1952-present
G8140040	Daly River	At Mt Nancar	1969-present
G8140042	Daly River	2km d/s Beeboom Crossing	1981-present
G8140067	Daly River	U/s Dorisvale Crossing	1960-present
G8140063	Douglas Riv	D/s old Douglas Homestead	1957-present
G8140011	Dry River	At Manbulloo bdy	1967-present
G8140152	Edith River	At dam site	1962-present
G8140008	Fergusson Riv	At old railway bridge	1957-present
G8140044	Flora River	U/s Kathleen Falls	1966-present
G8140161	Green Ant Ck	At Tipperary	1966-present
G8140001	Katherine Riv	At railway bridge	1960-present
G8140023	Katherine Riv	At Gorge	1972-present
G8140218	Katherine Riv	At Mt Epworth	1966-present
G8140219	Katherine Riv	D/s Birdie Ck	1997-present
G8140158	McAdden Ck	At dam site	1962-present
G8140159	Seventeen Mile Ck	At waterfall view	1962-present

## CLOSED FLOW GAUGE STATIONS

Station	Tributary	Location	Years Recording
G8140234	Bradshaw Ck	At Wambungi Rd Crossing	1965-1981
G8140062	Copperfield Ck	Chinamans Camp	1972-1987
G8140041	Daly River	At Gourley	1959-1981
G8140266	Daly River	U/s of Moon Billabong	1967-1986
G8140166	Fish River	At Gorge	1963-1987
G8140005	Flora River	Upper and Picker Pocket	1967-1986
G8140019	Katherine Riv	At Katherine Gorge	1954-1987
G8140068	King River	D/s Victoria Hwy	1958-1986
G8140086	King River	D/s Stuart Hwy	1964-1987
G8140151	Mathison Ck	At Victoria Hwy	1961-1987
G8140214	Scott Creek	At Victoria Hwy	1963-1987

## NOTE

Refer Table 4.36 in report for a summary of stream flow information.



**TOP END WATERWAYS PROJECT**  
**DALY RIVER CATCHMENT**




**FLOW GAUGE STATIONS,  
MONITORING BORES  
AND SPRINGS**

Map 25



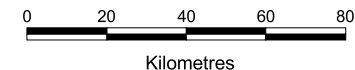


## LEGEND

- 19a** Sub-section Number
- Catchment Boundary
- River
- Creek
- Road
- Katherine Municipal Boundary
-  Water Quality Sampling Point located at a Flow Gauge Station. Parameters tested include 1, 2, 4 - 7 \* (Refer Table 4.37 in report for a summary of the results).
-  Water Quality Sampling Point NOT located at a Flow Gauge Station and where >10 results for a parameter and/or results >1985. Parameters tested include 1, 2, 4 - 7 \* (Refer Table 4.38 in report for a summary of the results).
-  Water Quality Sampling Point located at an 'Ausriivas' Project Site (previously known as a 'Monitoring River Health' Site) Parameters tested include 1, 3 - 7 \* (Refer Table 4.39 in report for a summary of the results).

## \* WATER QUALITY PARAMETERS

- 1 Electrical Conductivity (Lab)
- 2 Turbidity (Lab)
- 3 Turbidity (Field)
- 4 Water Temperature (Field)
- 5 pH (Lab)
- 6 Total Alkalinity (Lab)
- 7 Total Phosphorus (Lab)



## WATER QUALITY SAMPLING POINTS





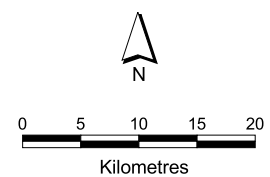
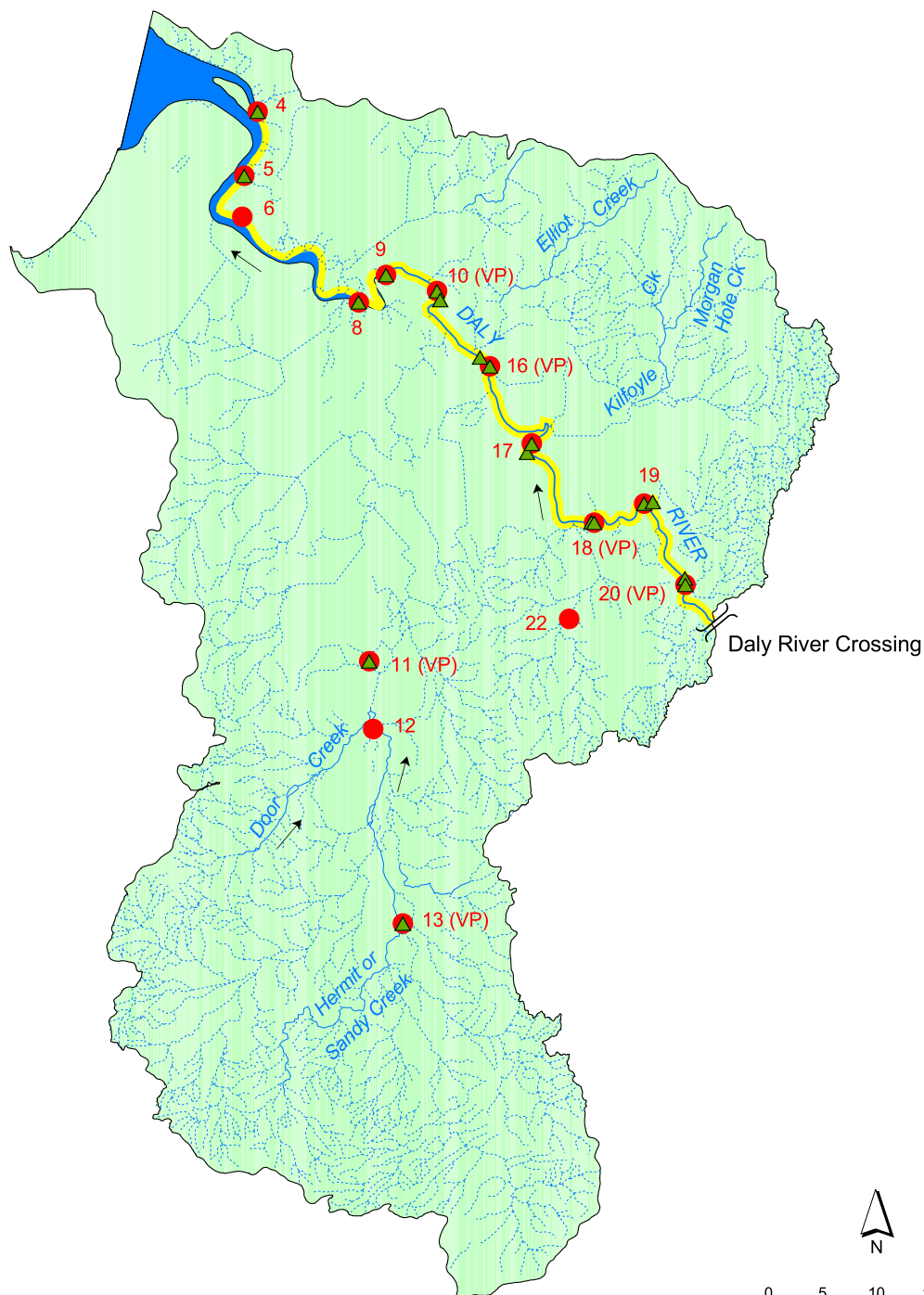
## DALY RIVER SUB-CATCHMENTS

### MAP SERIES

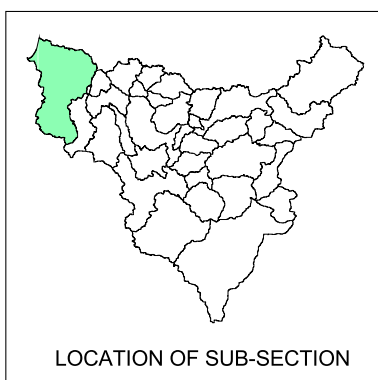
This document displays the following map series for the report,  
*Daly River Catchment, Part 2 –  
Accompanying Sub-catchment Information*

Sub-catchment	Sub-section	Tributary Name
1	a.	Daly River - Estuary
	b.	Daly River - Below Douglas River
	c.	Daly River - Below Fergusson River
	d.	Daly River - Below Katherine River
2		Chilling and Muldiva Creeks
3		Hayward Creek
4		Fish River
5		Bamboo (Moon Boon) Creek
6		Green Ant Creek
7		Douglas Creek
8		Hayes Creek
9		Middle Creek
10		Stray Creek
11		Bradshaw Creek
12		Dead Horse Creek
13	a.	Fergusson River – Below Edith River
	b.	Fergusson River – Above Edith River
14		Edith River
15		Eight Mile Creek
16		Cullen River and Copperfield Creek
17		Flora River and Hayward Creek
18		Mathison and Aroona Creeks
19	a.	Katherine River – Below King River
	b.	Katherine River – Below Seventeen Mile Creek
	c.	Katherine River – Below Grace and Fanny Creeks
	d.	Katherine River – Below Birdie Creek
	e.	Katherine River – Upper Katherine River
20		Limestone and Scott Creeks
21	a.	King River – Below Dry River
	b.	King River – Above Dry River
22		Dry River
23		Durriyan Creek
24		Seventeen Mile Creek





Area - 4,945 km<sup>2</sup>



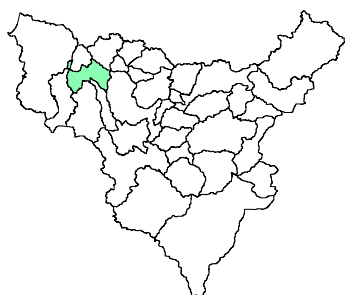
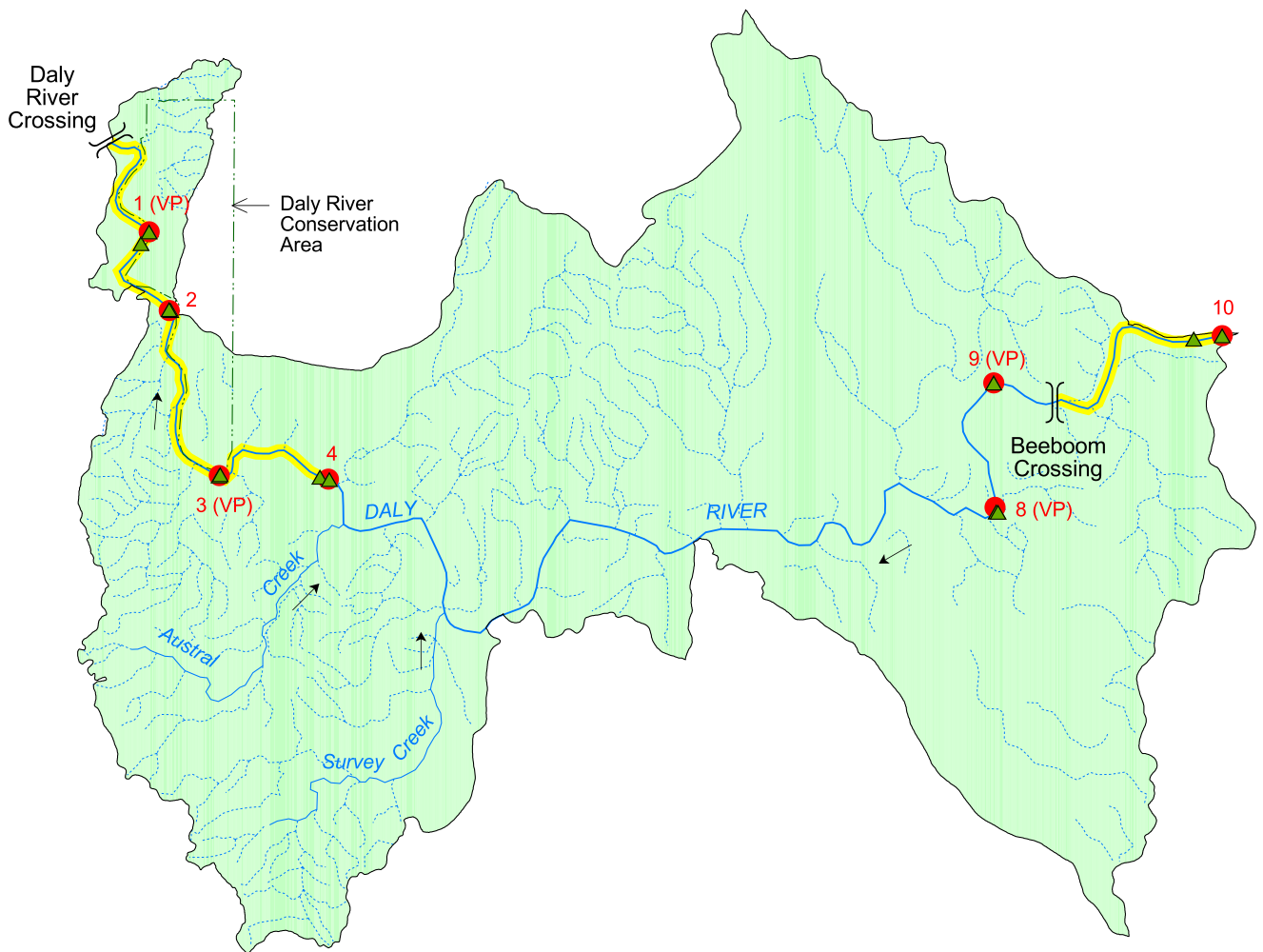
LEGEND	
<span style="color: red;">●</span> 5	Site
<span style="color: green;">▲</span>	Sample Point
(VP)	Vegetation Profile
<span style="color: yellow;">—</span>	Longitudinal Profile Survey
<span style="color: blue;">—</span>	River
<span style="color: lightblue;">—</span>	Creek
<span style="color: black;">←</span>	Flow direction

 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## DALY RIVER Estuary

SUB-SECTION 1a

Map 27



- LEGEND**
- 5 Site
  - ▲ Sample Point
  - (VP) Vegetation Profile
  - Longitudinal Profile Survey
  - River
  - Creek
  - ← Flow direction

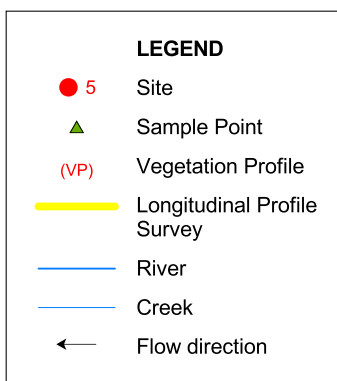
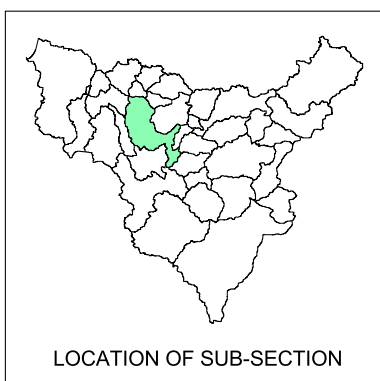
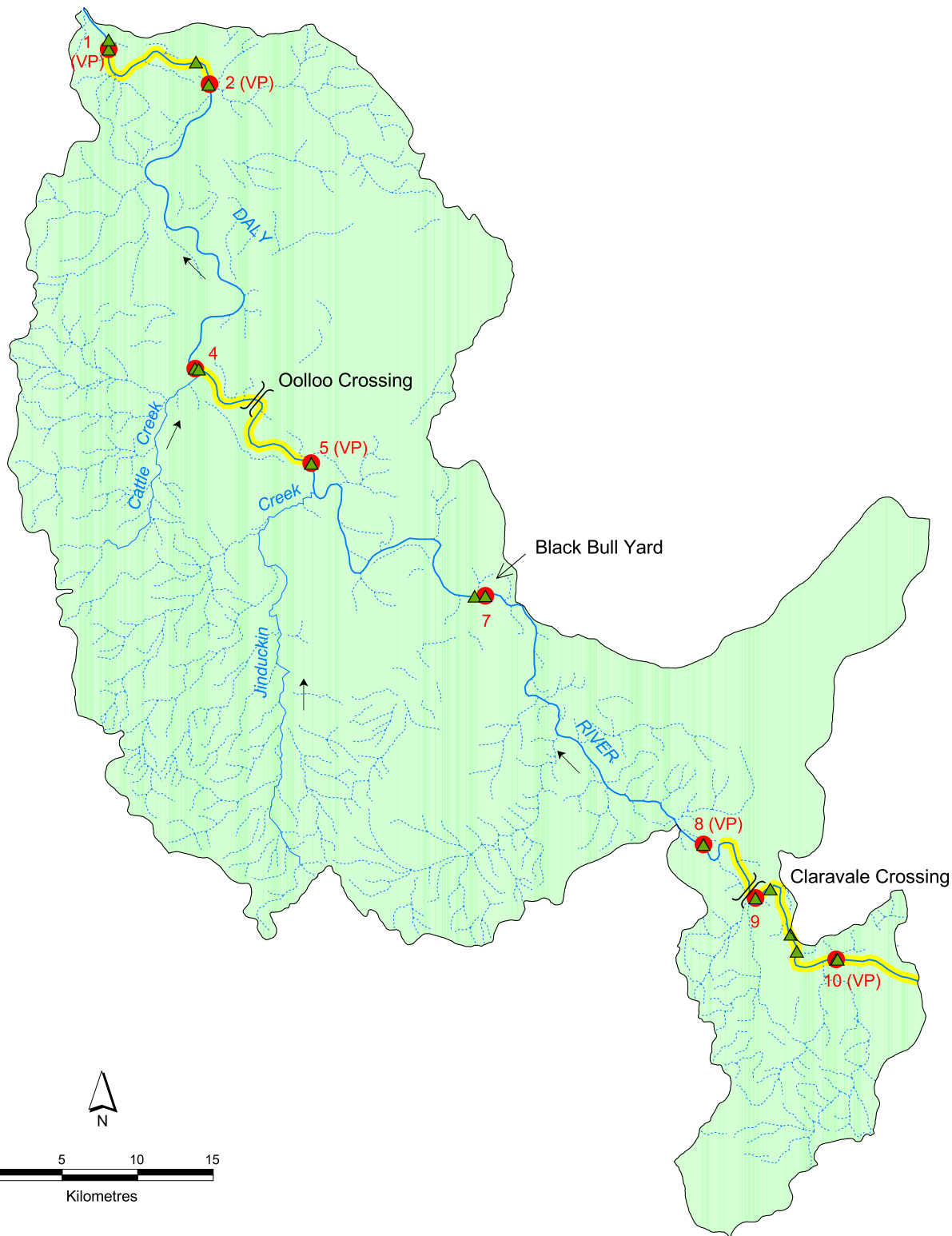
 TOP END WATERWAYS PROJECT  
**DALY RIVER CATCHMENT**

## **DALY RIVER Below Douglas River**

### **SUB-SECTION 1b**

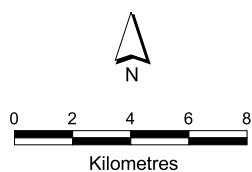
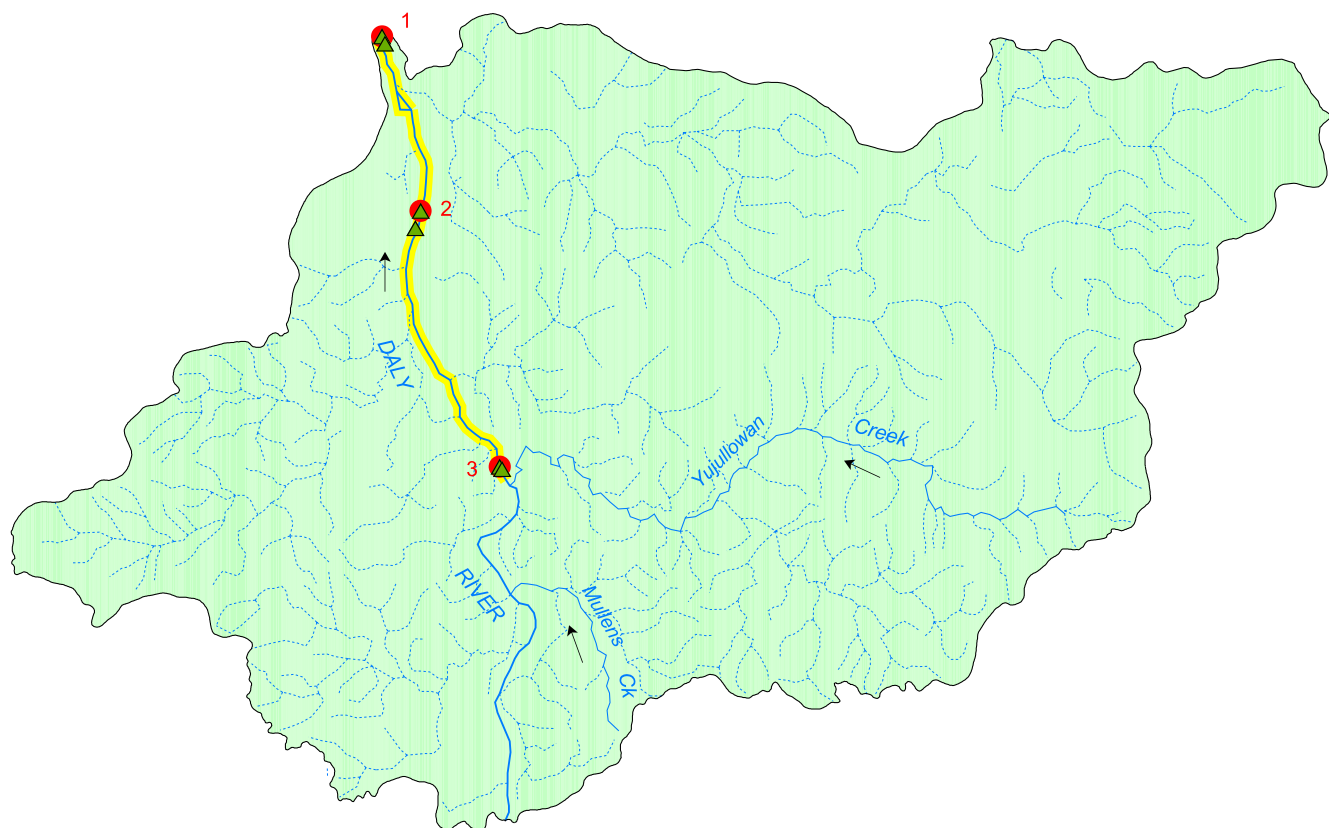
**Map 28**



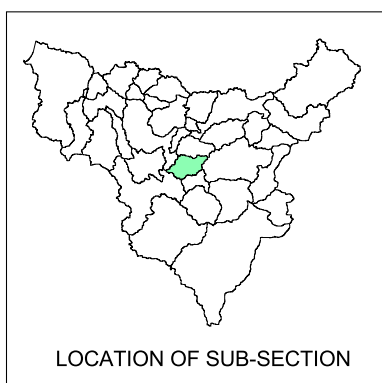


## DALY RIVER Below Fergusson River

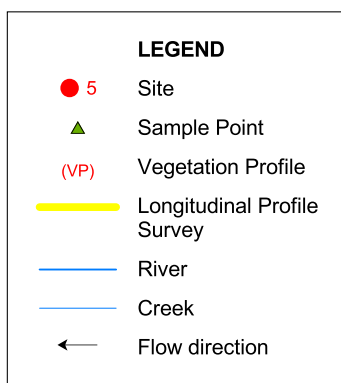
### SUB-SECTION 1c



Area - 734 km<sup>2</sup>



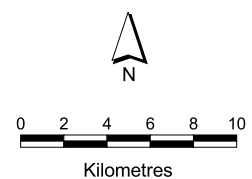
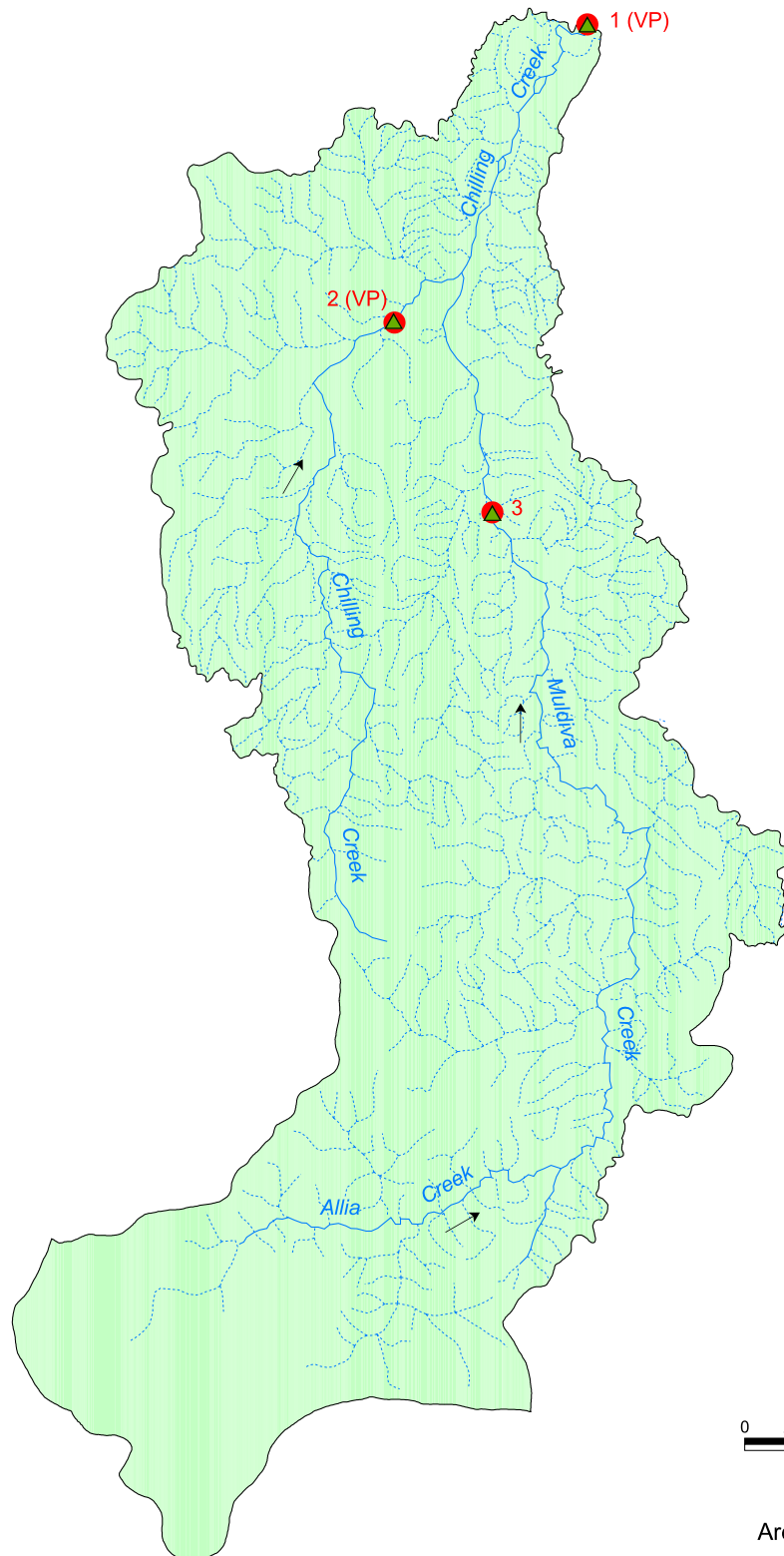
LOCATION OF SUB-SECTION



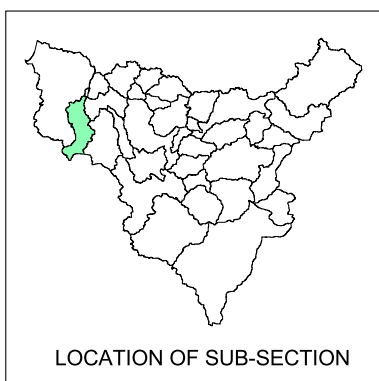
 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## DALY RIVER Below Katherine River

SUB-SECTION 1d



Area - 1,241 km<sup>2</sup>

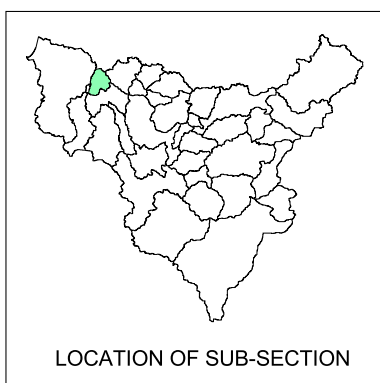
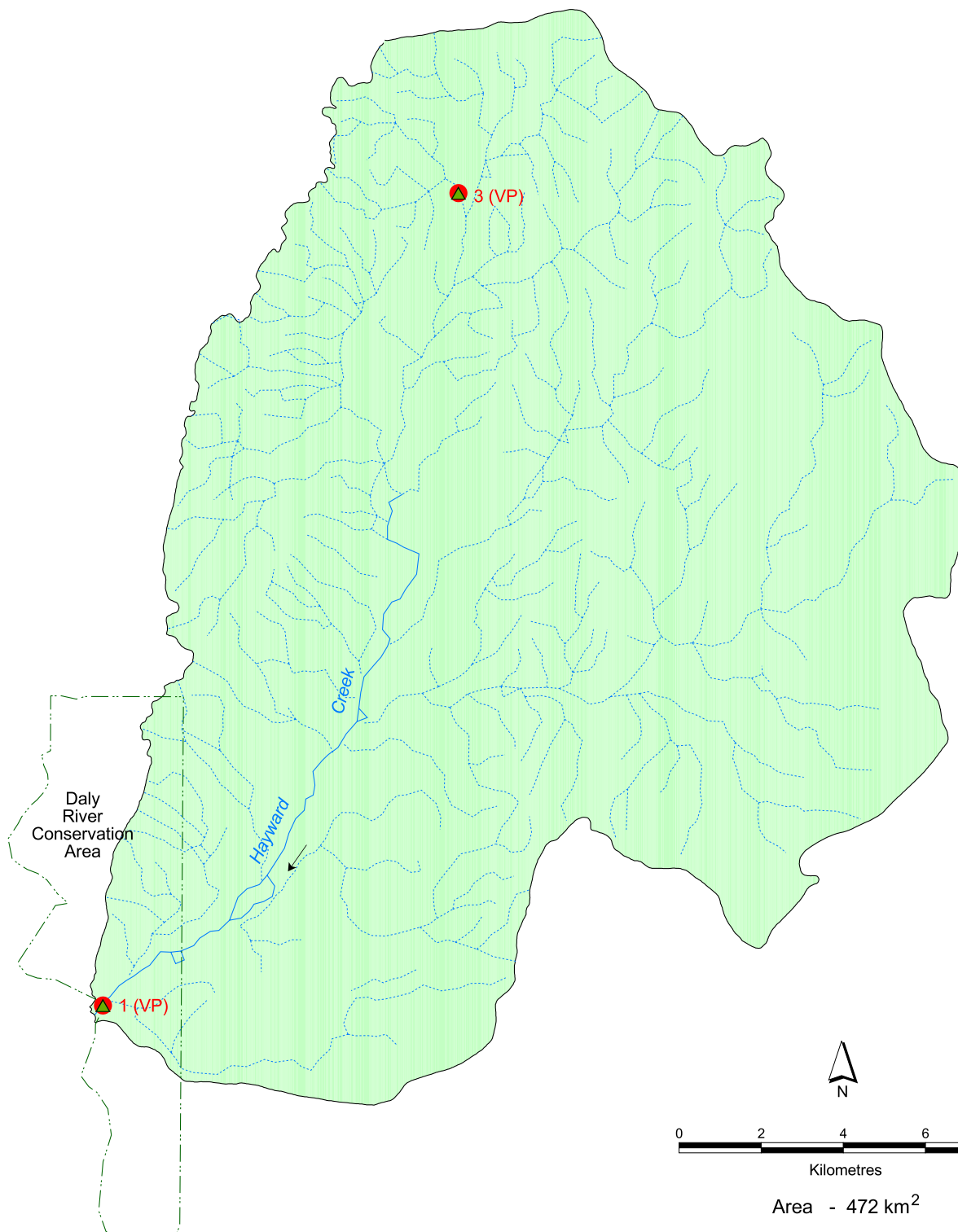


LEGEND	
● 5	Site
▲	Sample Point
(VP)	Vegetation Profile
—	Longitudinal Profile Survey
—	River
—	Creek
←	Flow direction

 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## CHILLING AND MULDIVA CREEKS

### SUB-SECTION 2



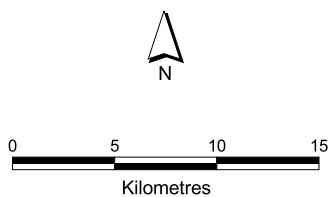
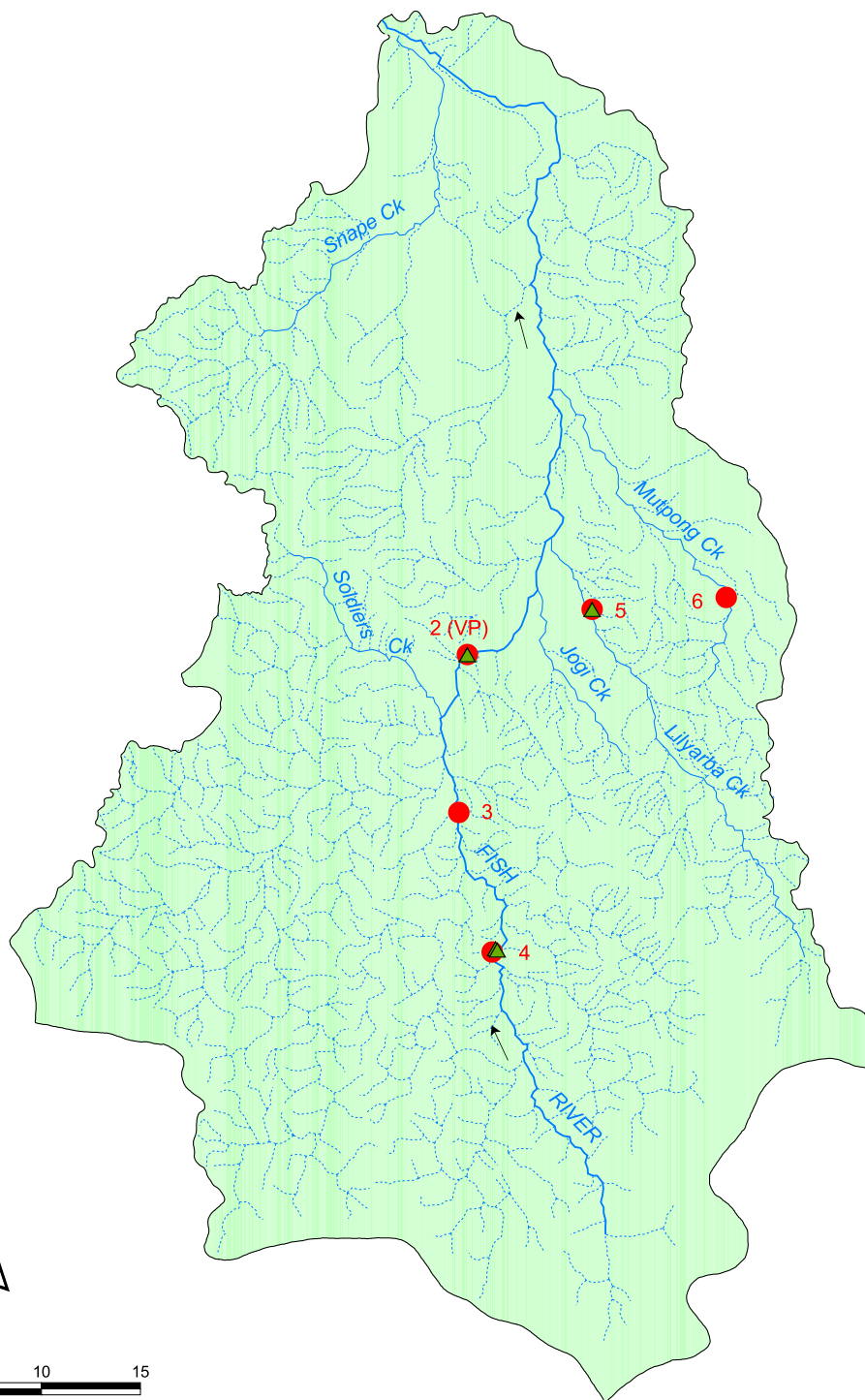
**LEGEND**

- 5 Site
- ▲ Sample Point
- (VP) Vegetation Profile
- Longitudinal Profile Survey
- River
- Creek
- ← Flow direction

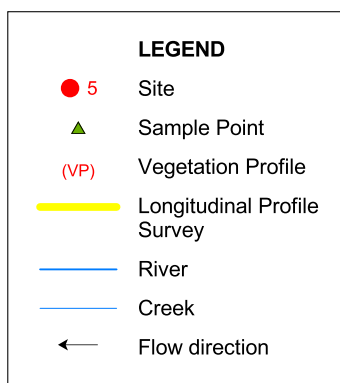
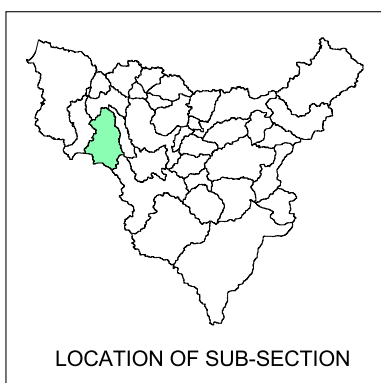
## HAYWARD CREEK

### SUB-SECTION 3



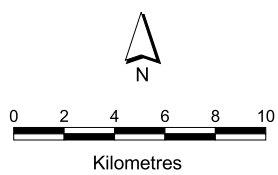


Area - 1,748 km<sup>2</sup>

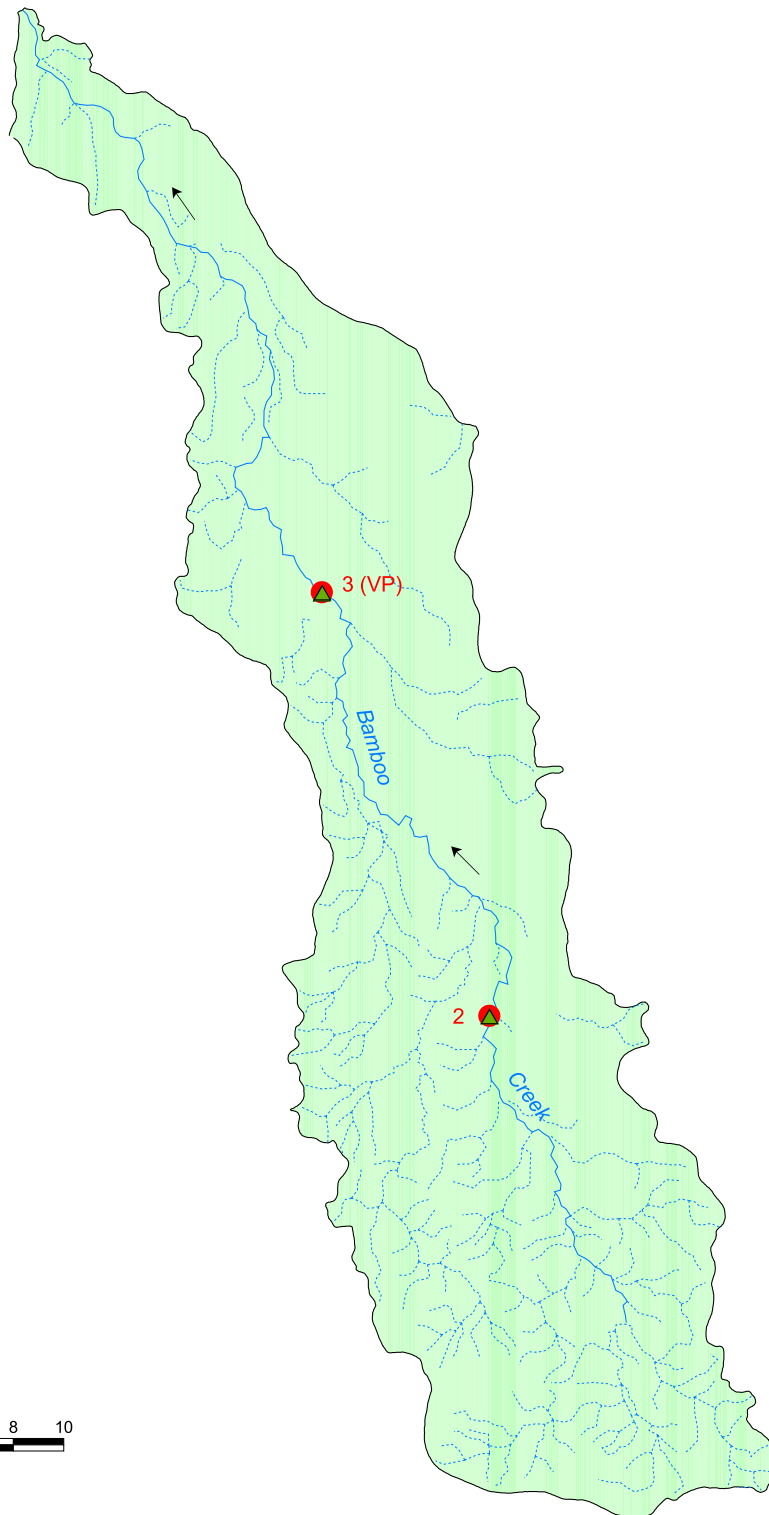


## FISH RIVER

### SUB-SECTION 4



Area - 602 km<sup>2</sup>



LOCATION OF SUB-SECTION

#### LEGEND

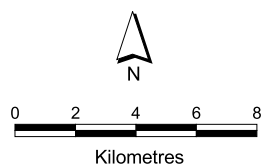
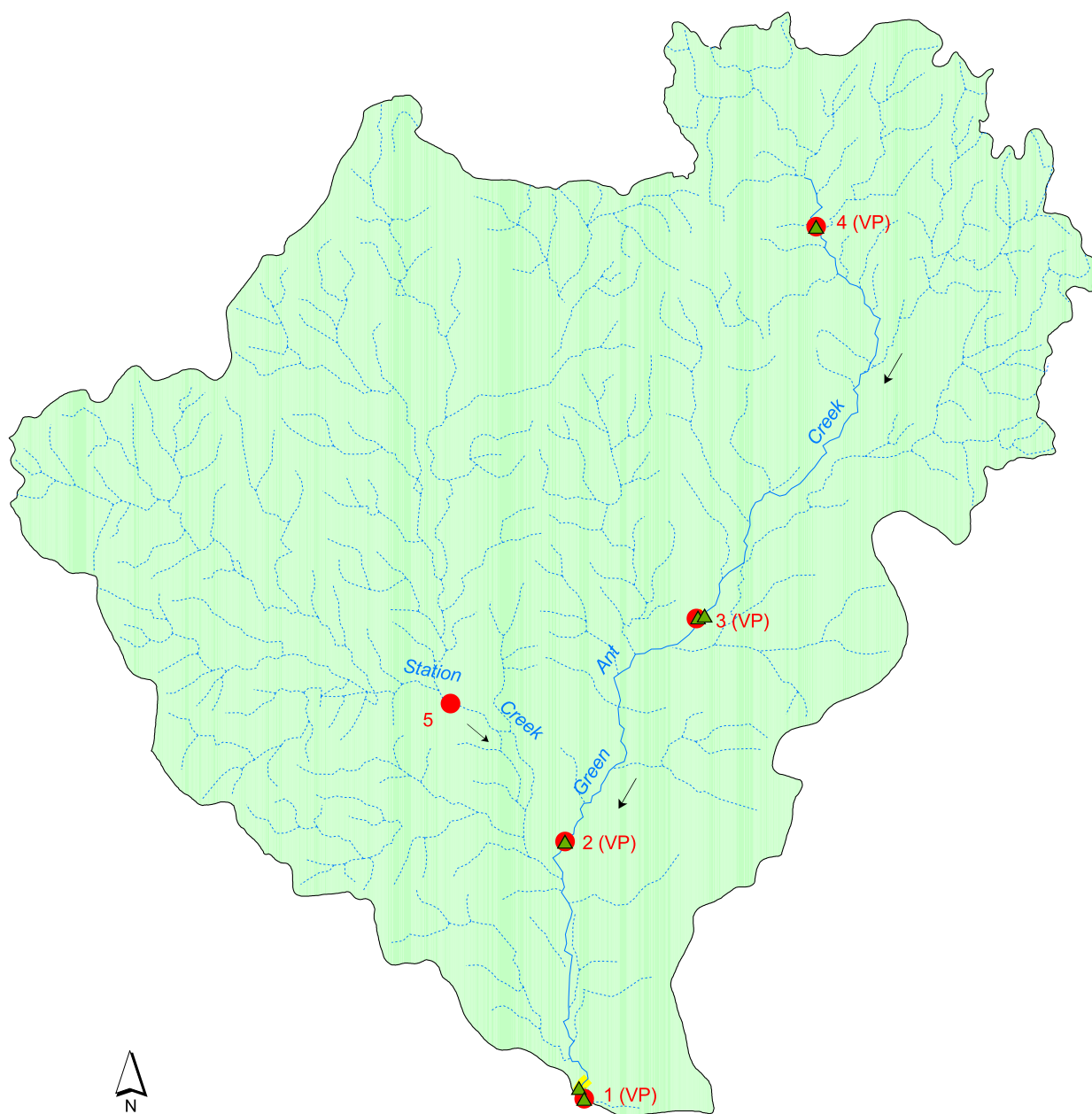
- 5 Site
- ▲ Sample Point
- (VP) Vegetation Profile
- Longitudinal Profile Survey
- River
- Creek
- ← Flow direction



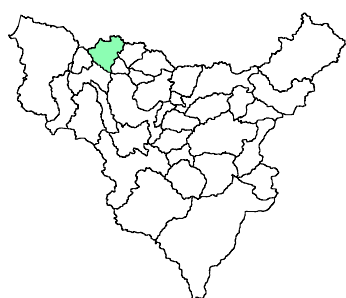
TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## BAMBOO (MOON BOON) CREEK

### SUB-SECTION 5



Area - 914 km<sup>2</sup>



LOCATION OF SUB-SECTION

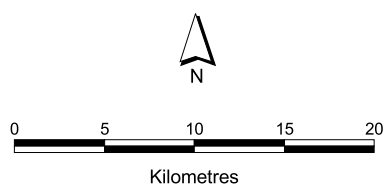
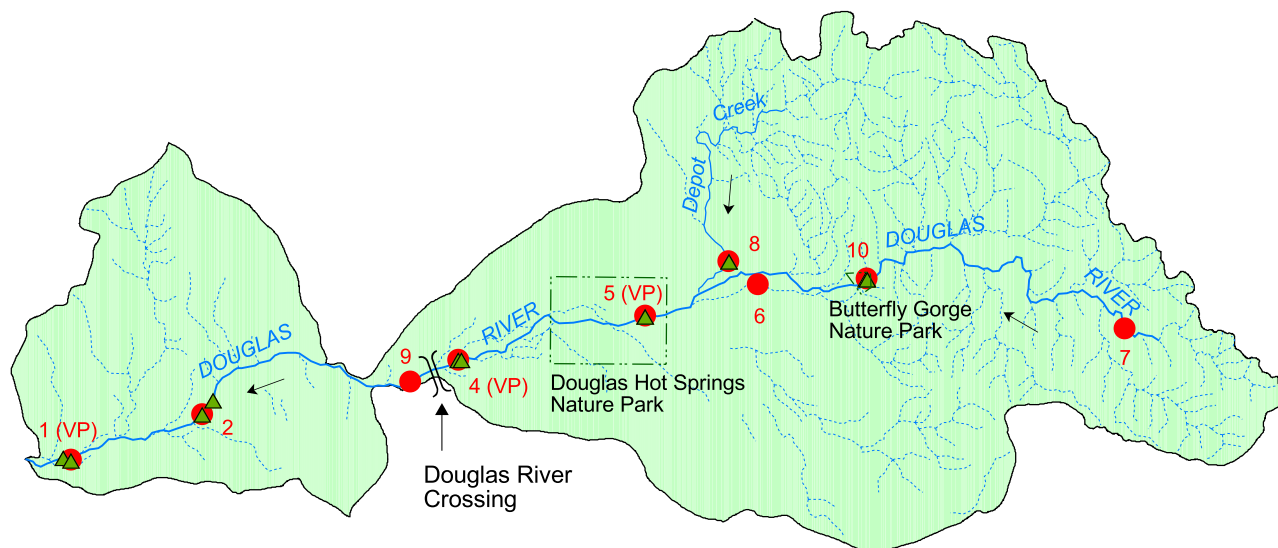
- LEGEND**
- 5 Site
  - ▲ Sample Point
  - (VP) Vegetation Profile
  - Longitudinal Profile Survey
  - River
  - Creek
  - ← Flow direction



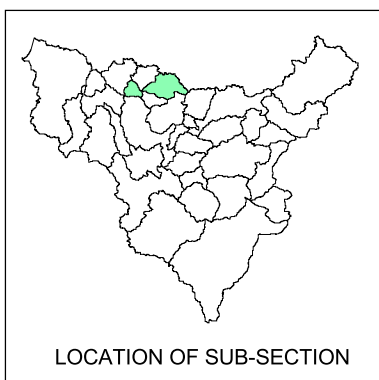
TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## GREEN ANT CREEK

### SUB-SECTION 6



Area - 1,116 km<sup>2</sup>



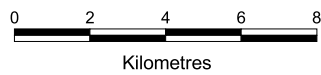
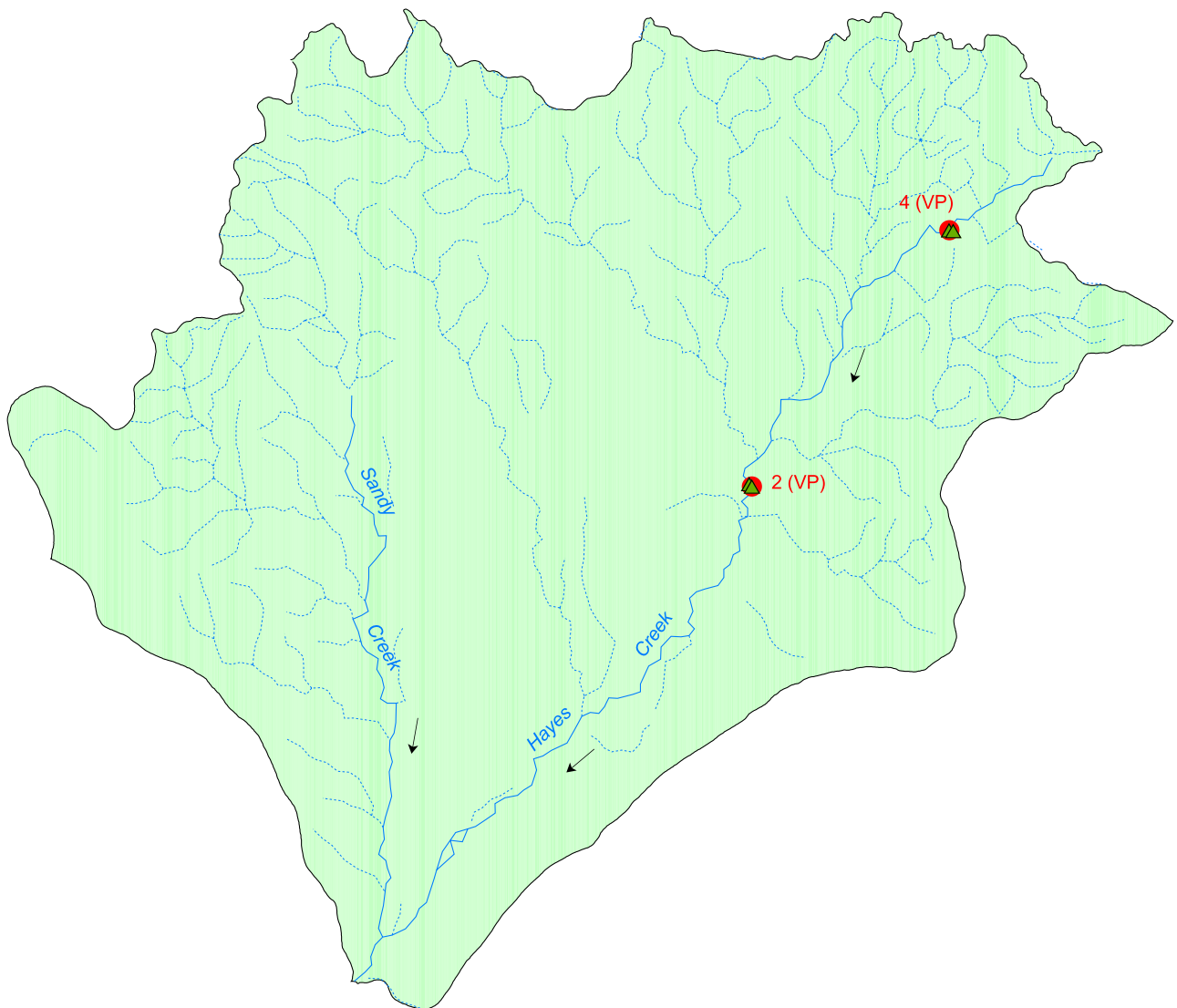
- LEGEND**
- 5 Site
  - ▲ Sample Point
  - (VP) Vegetation Profile
  - Longitudinal Profile Survey
  - River
  - Creek
  - ← Flow direction

 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## DOUGLAS RIVER

### SUB-SECTION 7





Area - 535 km<sup>2</sup>



LOCATION OF SUB-SECTION

#### LEGEND

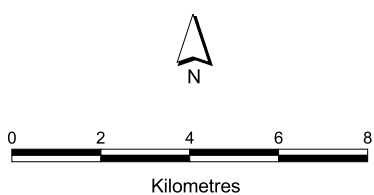
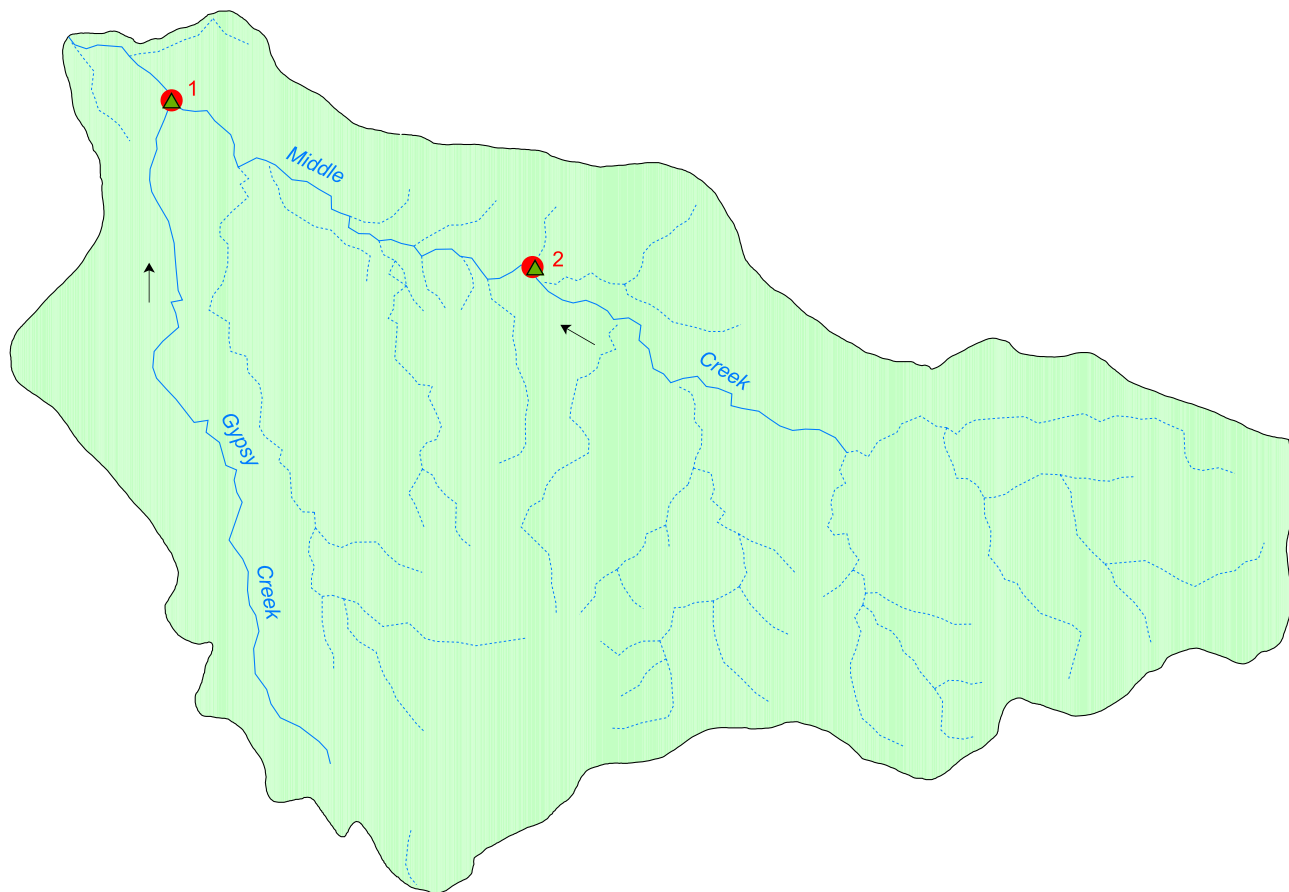
- 5 Site
- ▲ Sample Point
- (VP) Vegetation Profile
- Longitudinal Profile Survey
- River
- Creek
- ← Flow direction



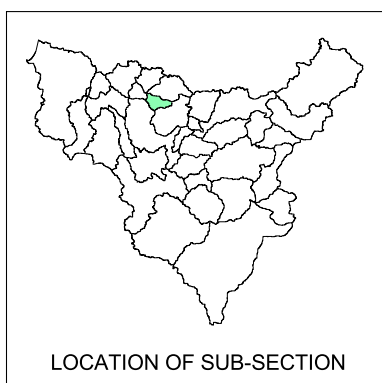
TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## HAYES CREEK

### SUB-SECTION 8



Area - 313 km<sup>2</sup>



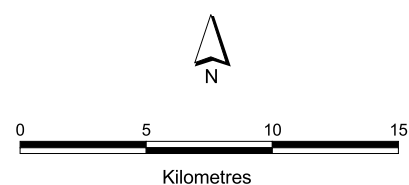
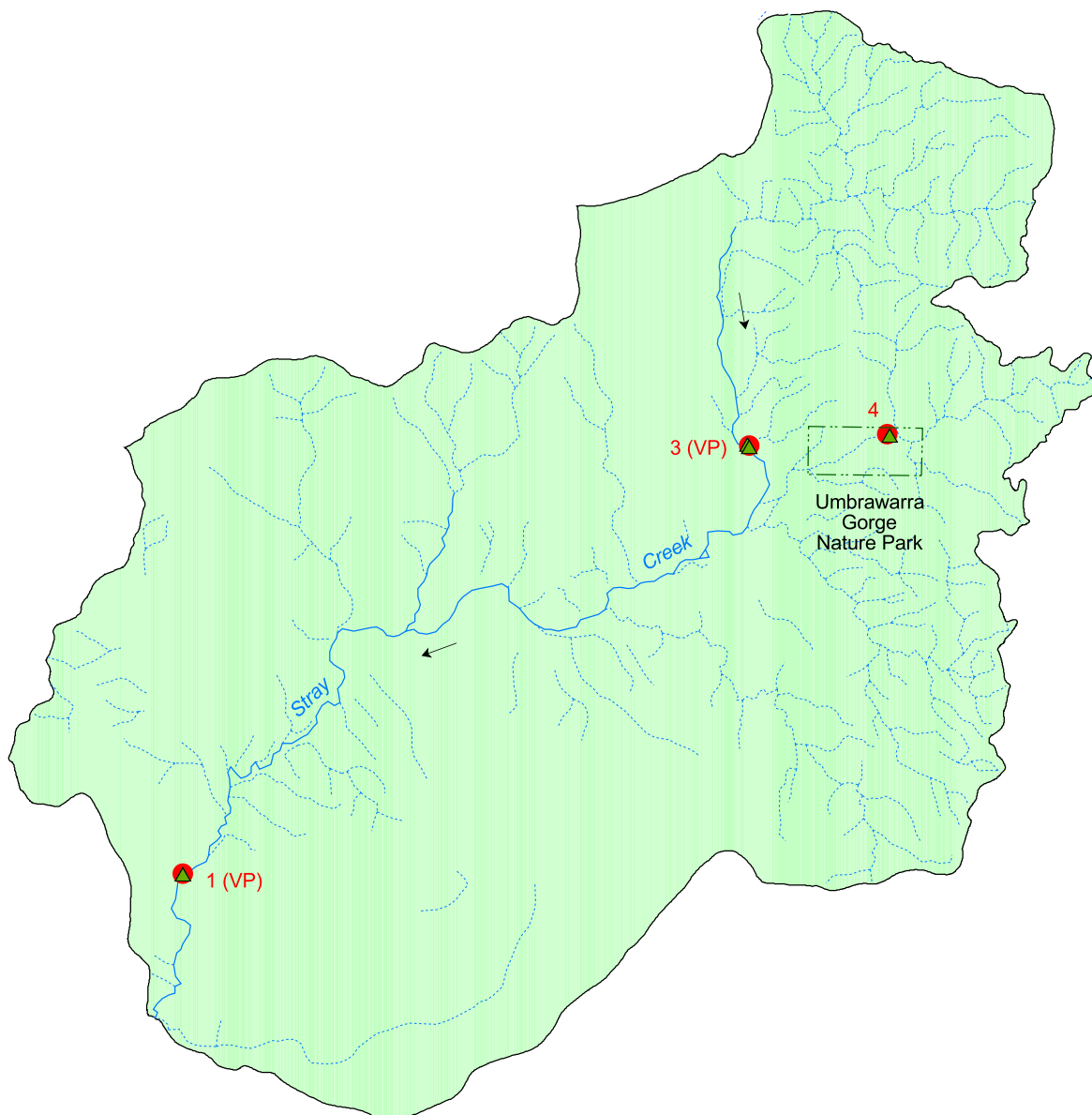
LEGEND	
<span style="color: red;">●</span> 5	Site
<span style="color: green;">▲</span>	Sample Point
<span style="color: red;">(VP)</span>	Vegetation Profile
<span style="color: yellow;">—</span>	Longitudinal Profile Survey
<span style="color: blue;">—</span>	River
<span style="color: lightblue;">—</span>	Creek
<span style="color: black;">←</span>	Flow direction



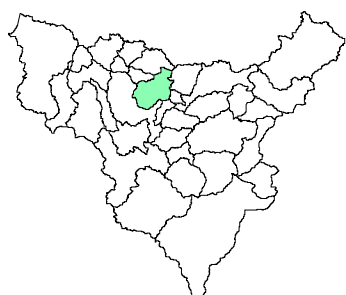
TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## MIDDLE CREEK

### SUB-SECTION 9



Area - 1,216 km<sup>2</sup>



LOCATION OF SUB-SECTION

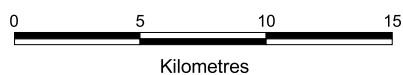
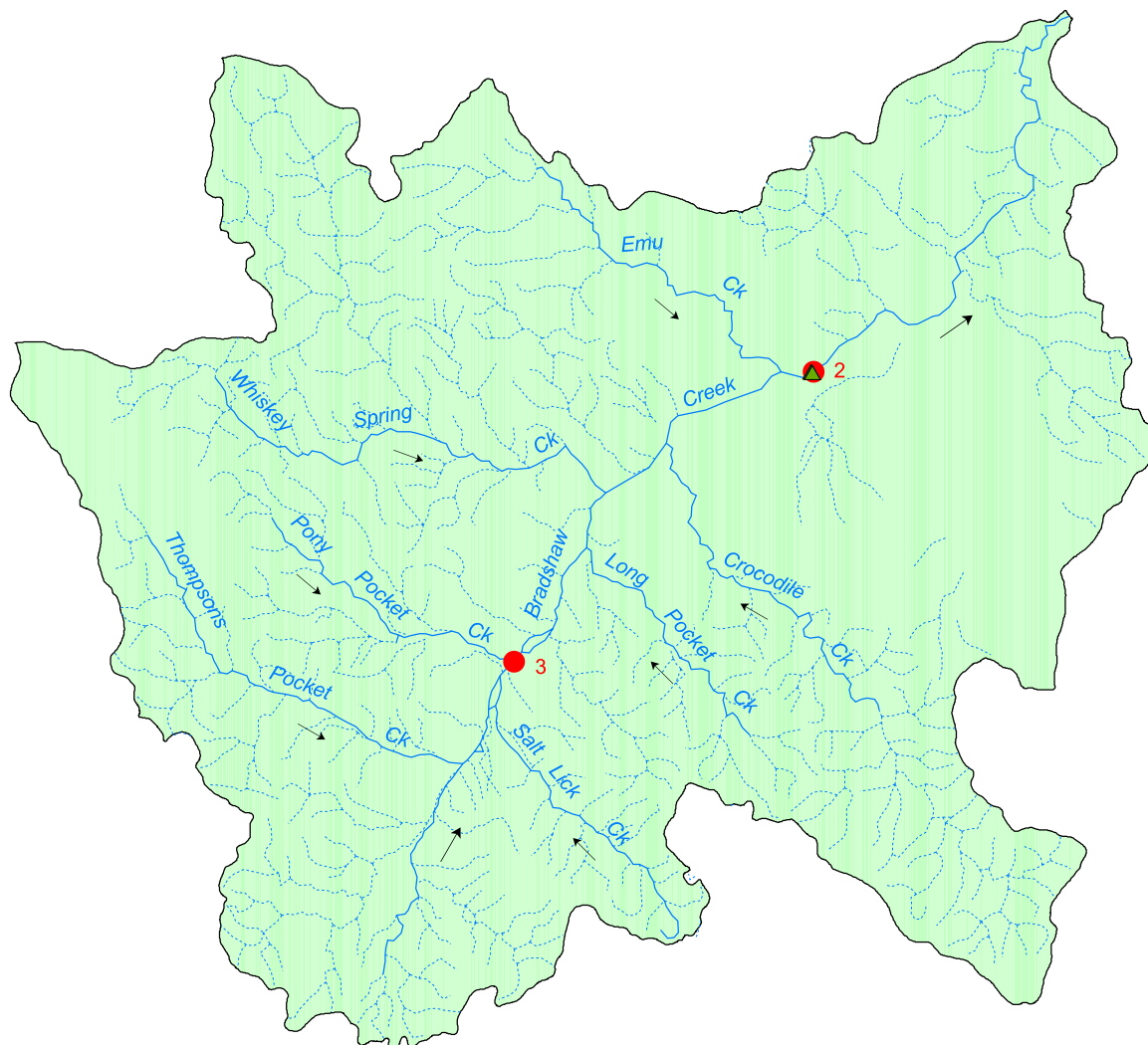
- LEGEND**
- 5 Site
  - ▲ Sample Point
  - (VP) Vegetation Profile
  - Longitudinal Profile Survey
  - River
  - Creek
  - ← Flow direction



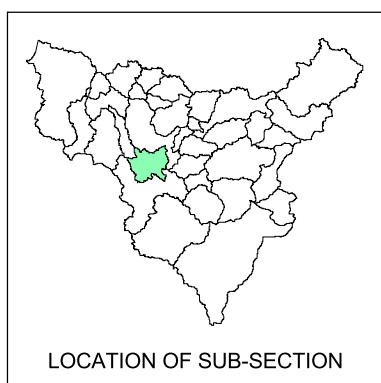
TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## STRAY CREEK

### SUB-SECTION 10



Area - 1,181 km<sup>2</sup>



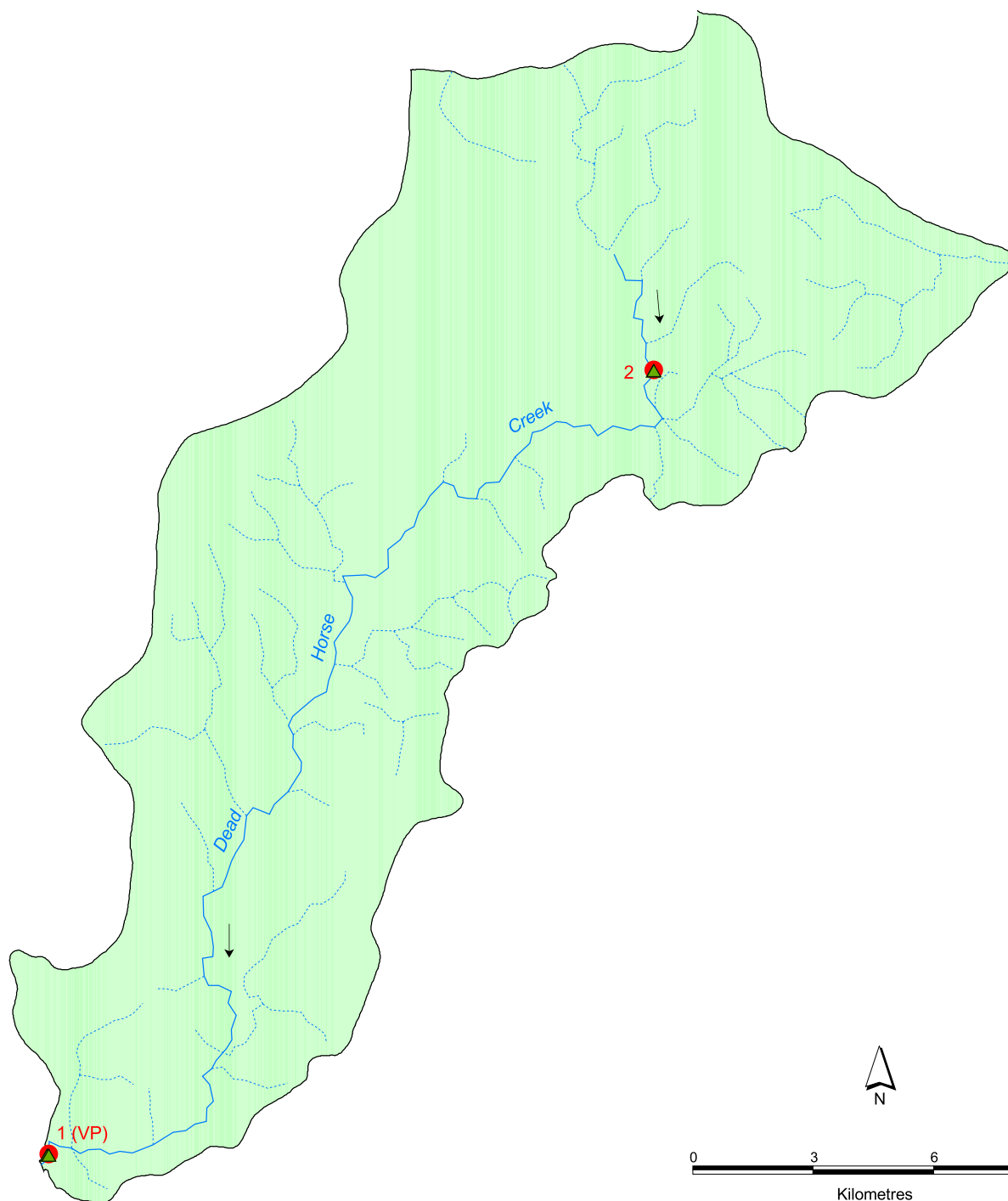
- LEGEND**
- 5 Site
  - ▲ Sample Point
  - (VP) Vegetation Profile
  - Longitudinal Profile Survey
  - River
  - Creek
  - ← Flow direction

 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

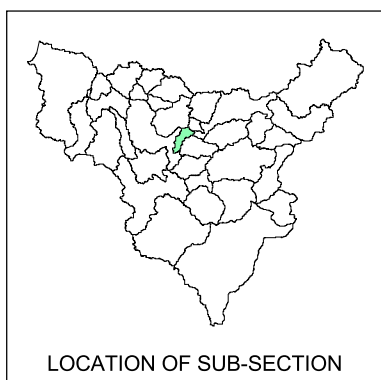
## BRADSHAW CREEK

### SUB-SECTION 11





Area - 278 km<sup>2</sup>

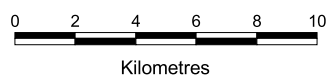
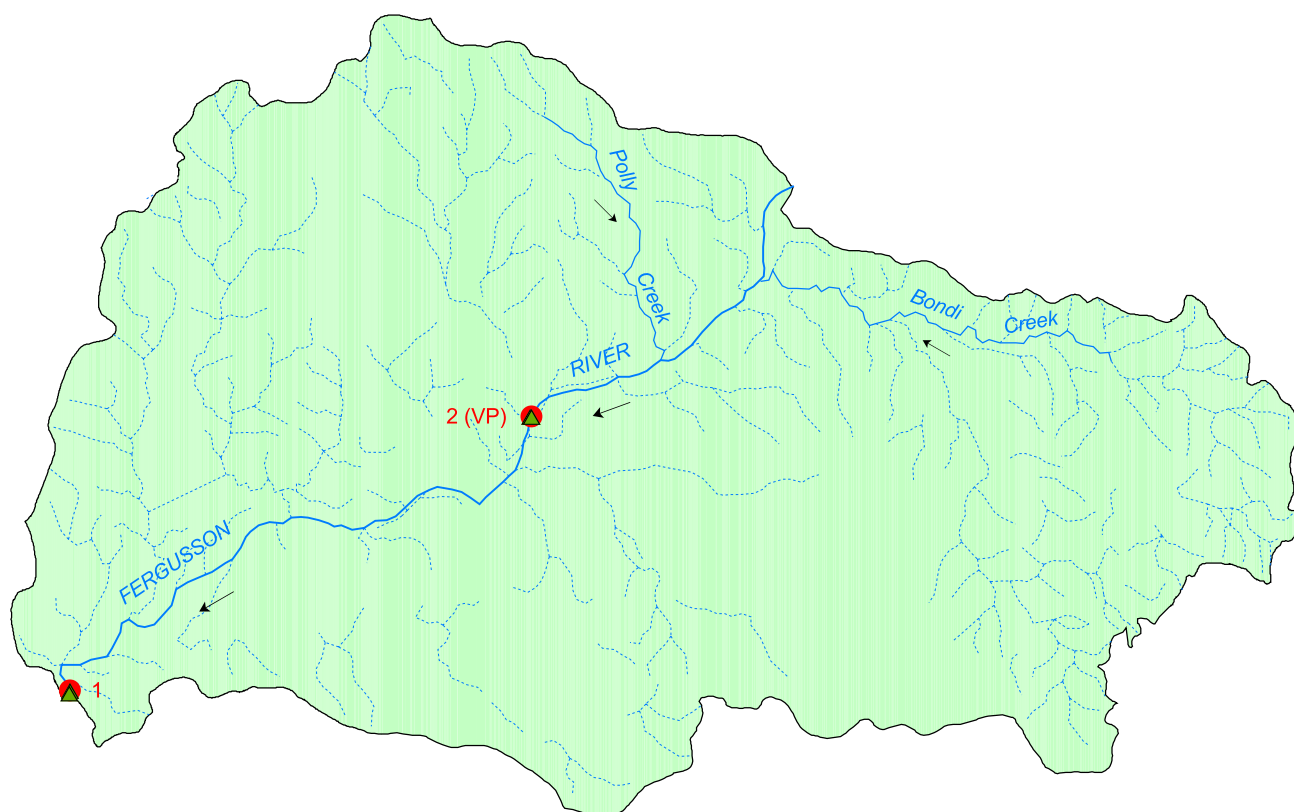


LEGEND	
● 5	Site
▲	Sample Point
(VP)	Vegetation Profile
—	Longitudinal Profile Survey
—	River
—	Creek
←	Flow direction

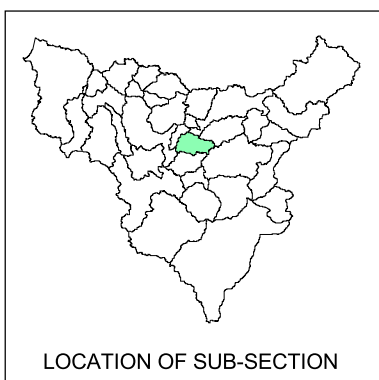
 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## DEAD HORSE CREEK

### SUB-SECTION 12



Area - 711 km<sup>2</sup>



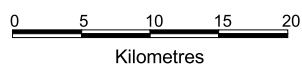
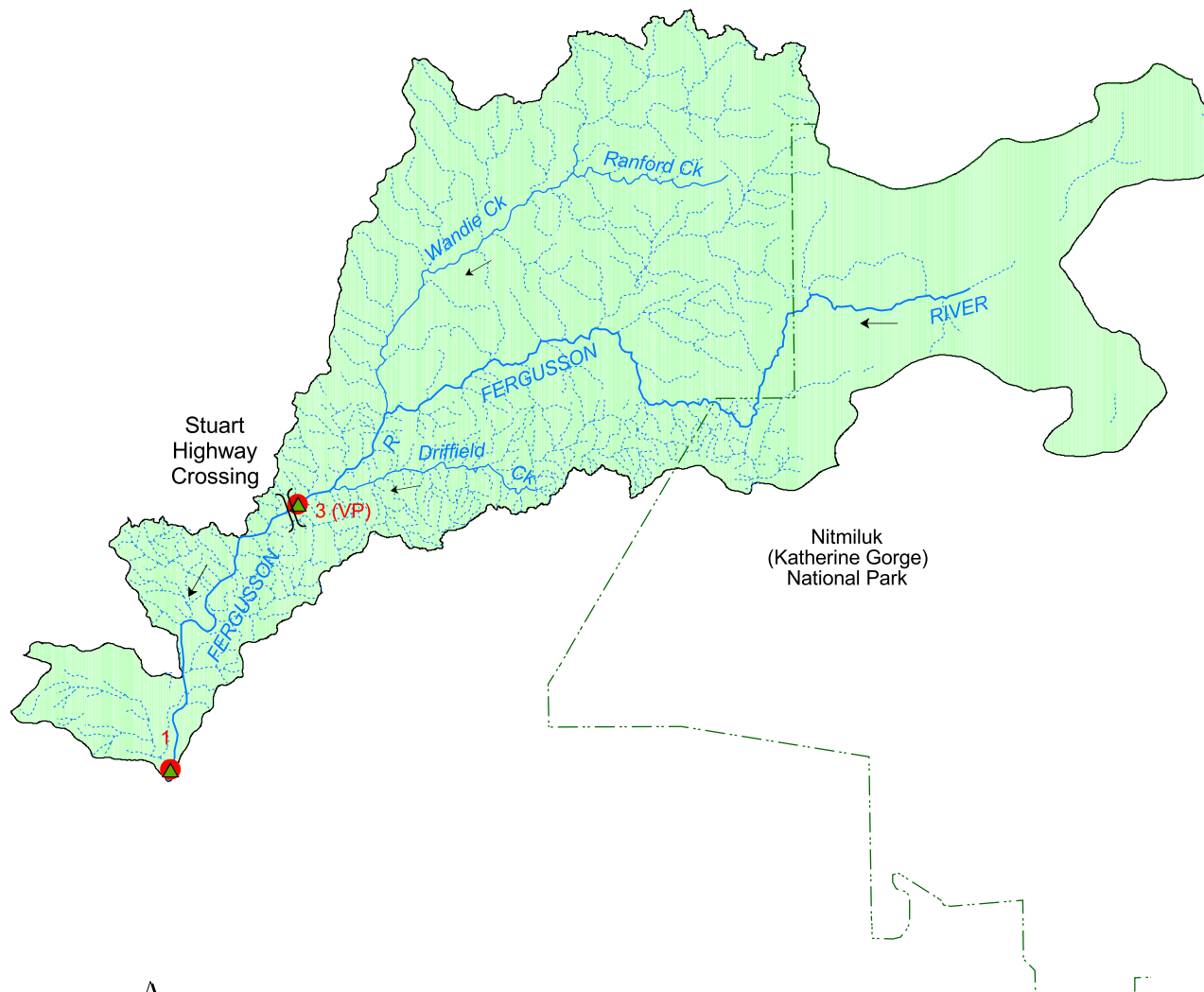
- LEGEND**
- 5 Site
  - ▲ Sample Point
  - (VP) Vegetation Profile
  - Longitudinal Profile Survey
  - River
  - Creek
  - ← Flow direction

 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

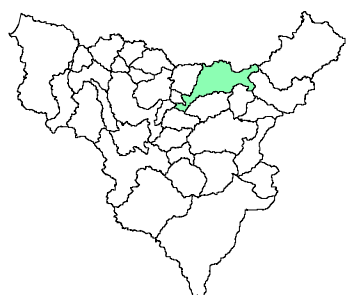
## FERGUSSON RIVER Below Edith River

SUB-SECTION 13a

Map 42



Area - 1,961 km<sup>2</sup>



LOCATION OF SUB-SECTION

- LEGEND**
- 5 Site
  - ▲ Sample Point
  - (VP) Vegetation Profile
  - Longitudinal Profile Survey
  - River
  - Creek
  - ← Flow direction

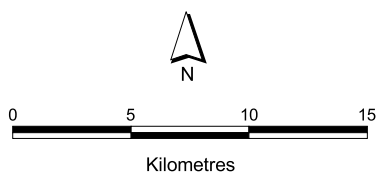
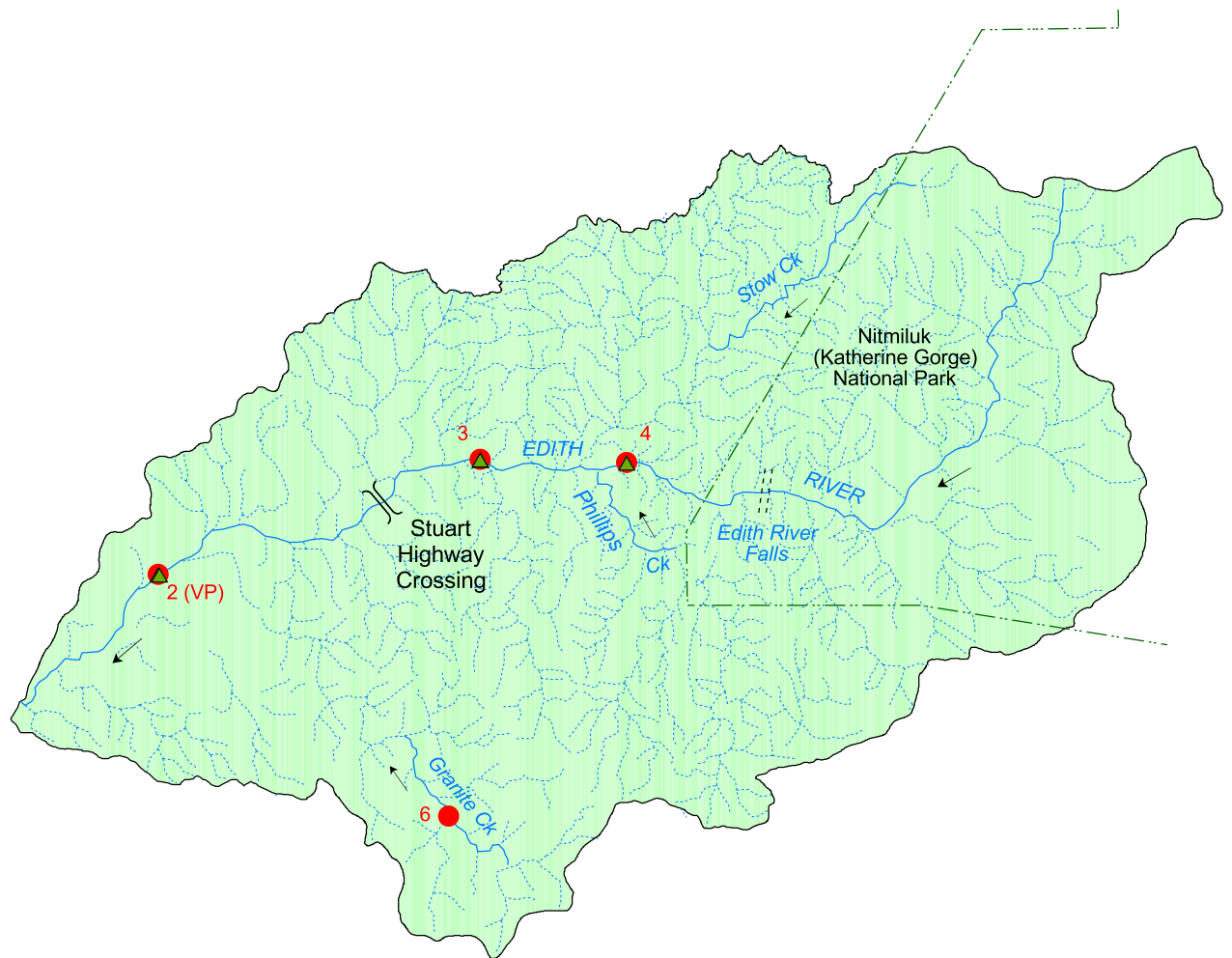


TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

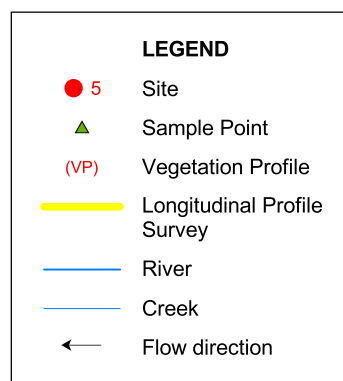
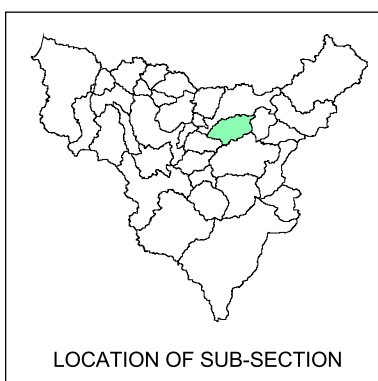
## FERGUSSON RIVER Above Edith River

SUB-SECTION 13b

Map 43



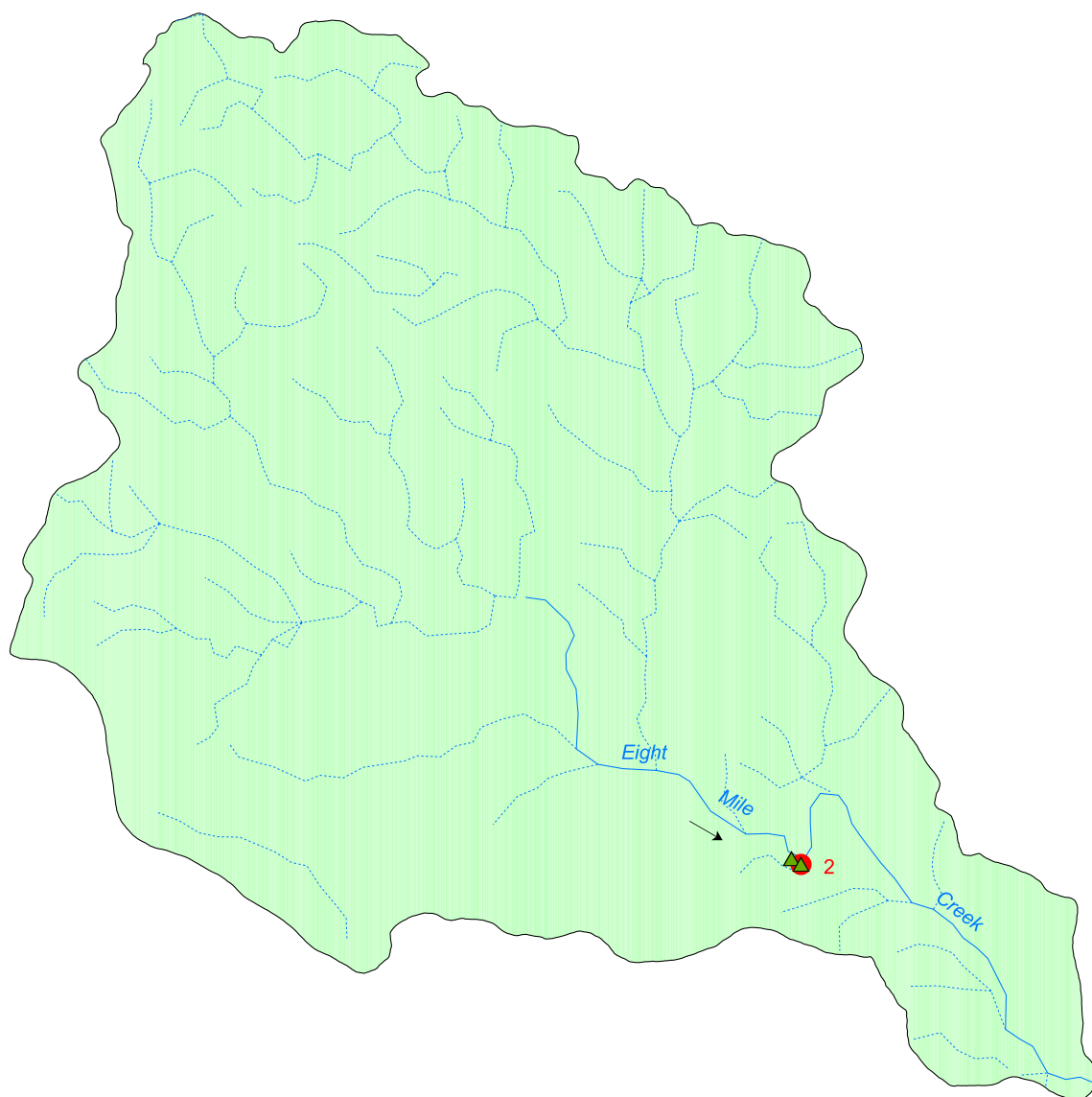
Area - 1,057 km<sup>2</sup>



## EDITH RIVER

### SUB-SECTION 14





Area - 180 km<sup>2</sup>



LOCATION OF SUB-SECTION

#### LEGEND

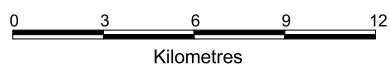
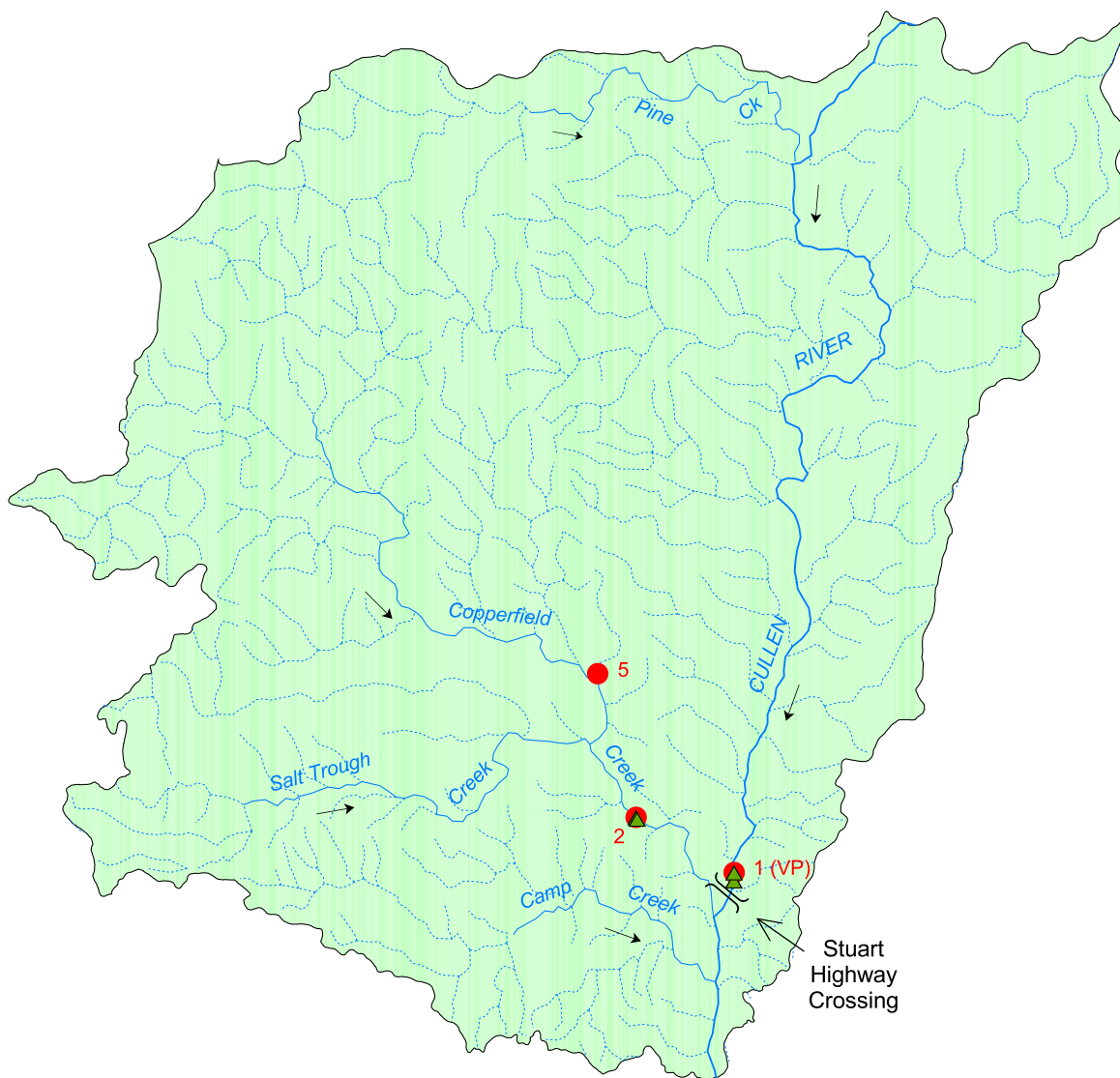
- 5 Site
- ▲ Sample Point
- (VP) Vegetation Profile
- Longitudinal Profile Survey
- River
- Creek
- ← Flow direction



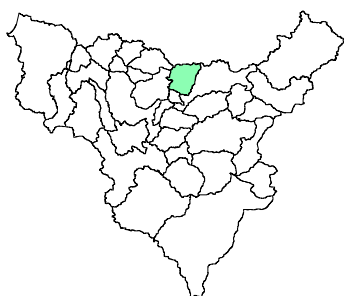
TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## EIGHT MILE CREEK

### SUB-SECTION 15



Area - 879 km<sup>2</sup>



LOCATION OF SUB-SECTION

#### LEGEND

- 5 Site
- ▲ Sample Point
- (VP) Vegetation Profile
- Longitudinal Profile Survey
- River
- Creek
- ← Flow direction

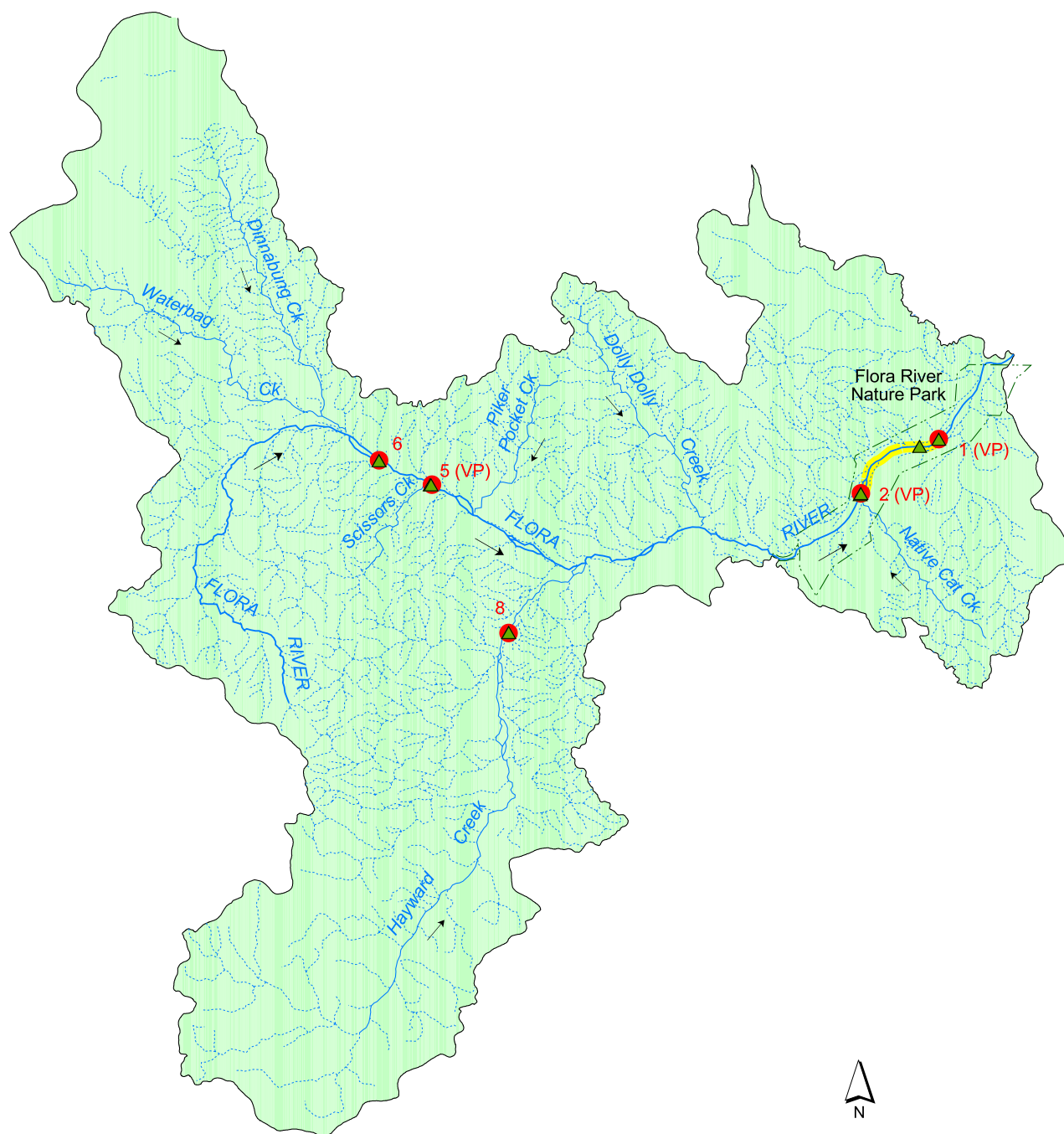


TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## CULLEN RIVER & COPPERFIELD CREEK

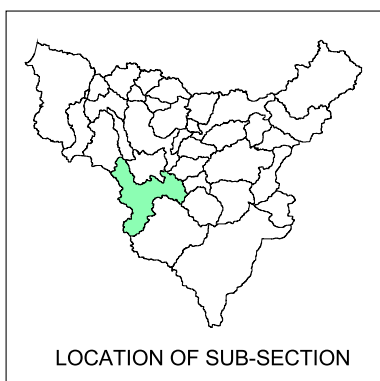
SUB-SECTION 16

Map 46



0 5 10 15 20  
Kilometres

Area - 2,946 km<sup>2</sup>



- LEGEND**
- 5 Site
  - ▲ Sample Point
  - (VP) Vegetation Profile
  - Longitudinal Profile Survey
  - River
  - Creek
  - ← Flow direction

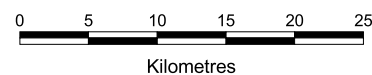
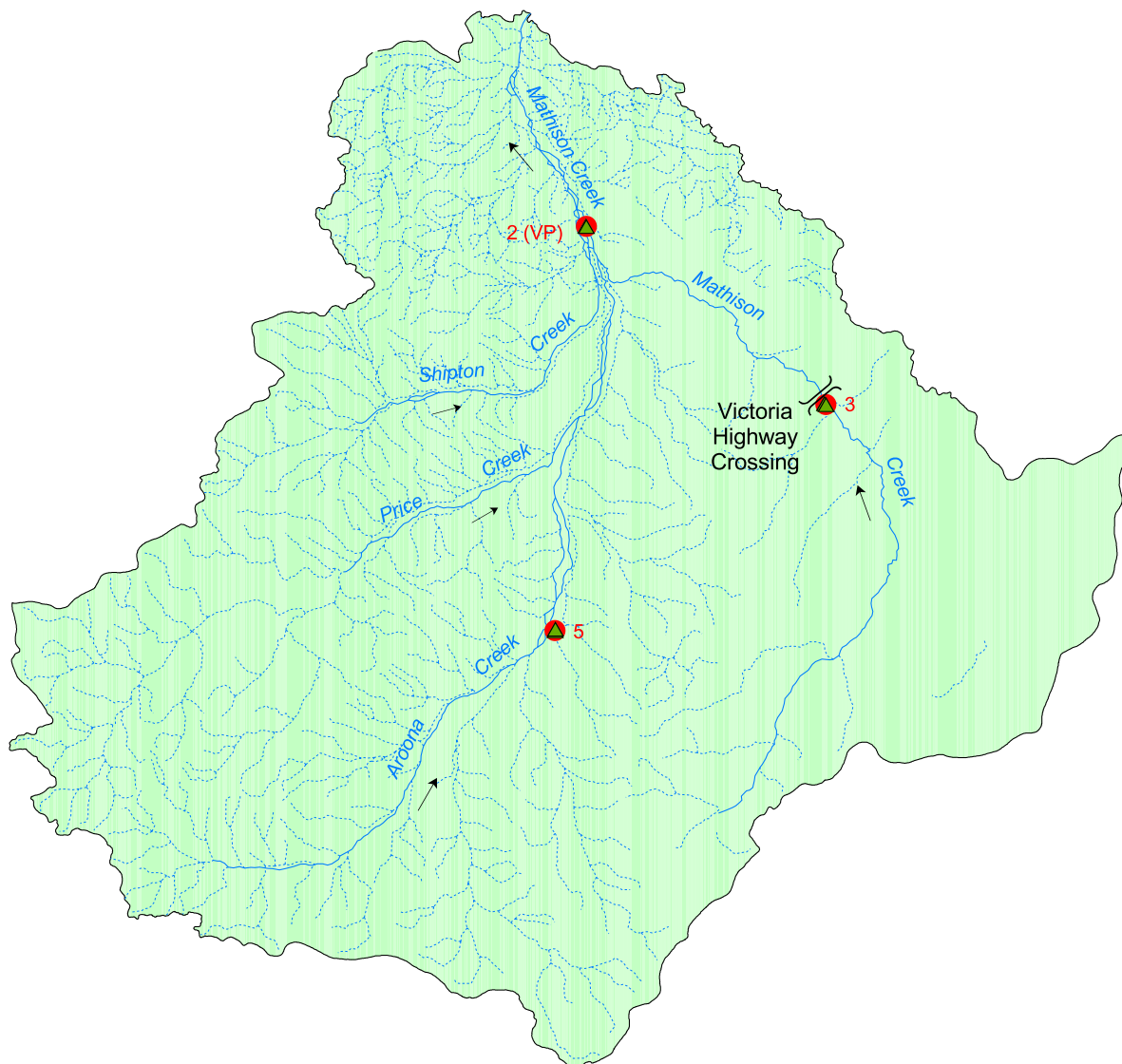


TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

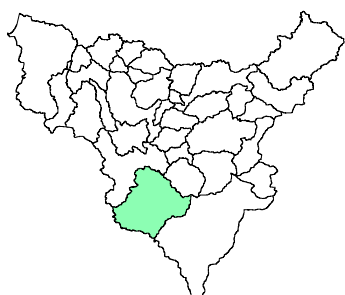
## FLORA RIVER & HAYWARD CREEK

SUB-SECTION 17

Map 47



Area - 3,790 km<sup>2</sup>



LOCATION OF SUB-SECTION

#### LEGEND

- 5 Site
- ▲ Sample Point
- (VP) Vegetation Profile
- Longitudinal Profile Survey
- River
- Creek
- ← Flow direction

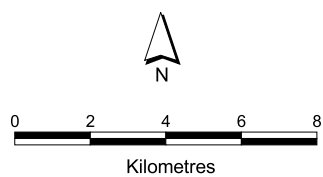
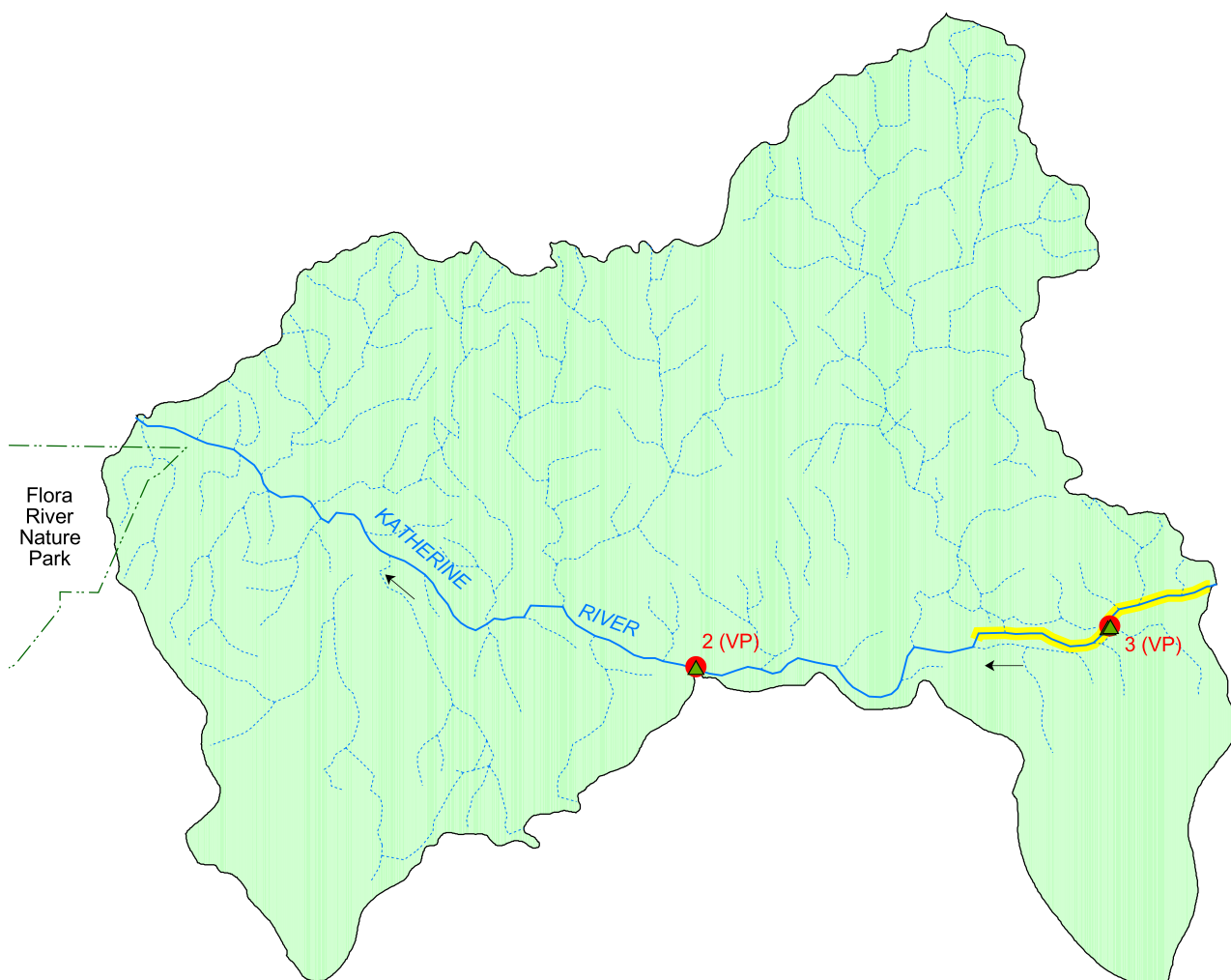


TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

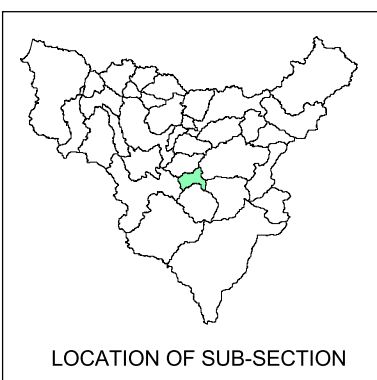
## MATHISON & AROONA CREEKS

### SUB-SECTION 18





Area - 446 km<sup>2</sup>



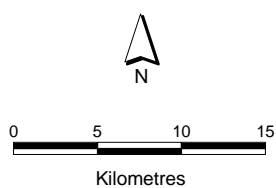
LEGEND	
<span style="color: red;">●</span> 5	Site
<span style="color: green;">▲</span>	Sample Point
<span style="color: red;">(VP)</span>	Vegetation Profile
<span style="color: yellow;">—</span>	Longitudinal Profile Survey
<span style="color: blue;">—</span>	River
<span style="color: lightblue;">—</span>	Creek
<span style="color: black;">←</span>	Flow direction

 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

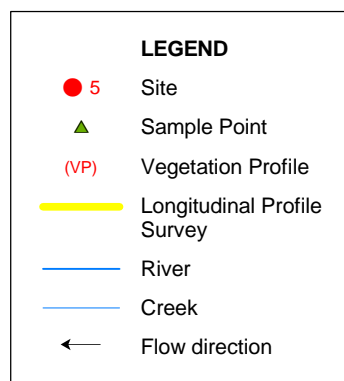
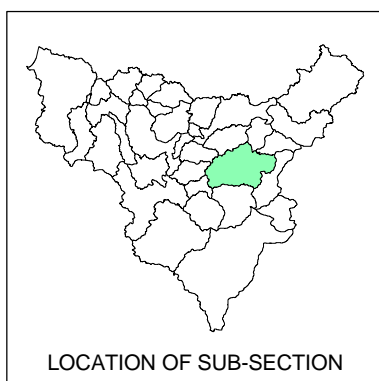
## KATHERINE RIVER Below King River

SUB-SECTION 19a

Map 49



Area - 2,546 km<sup>2</sup>

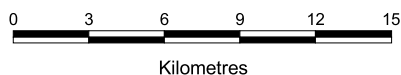
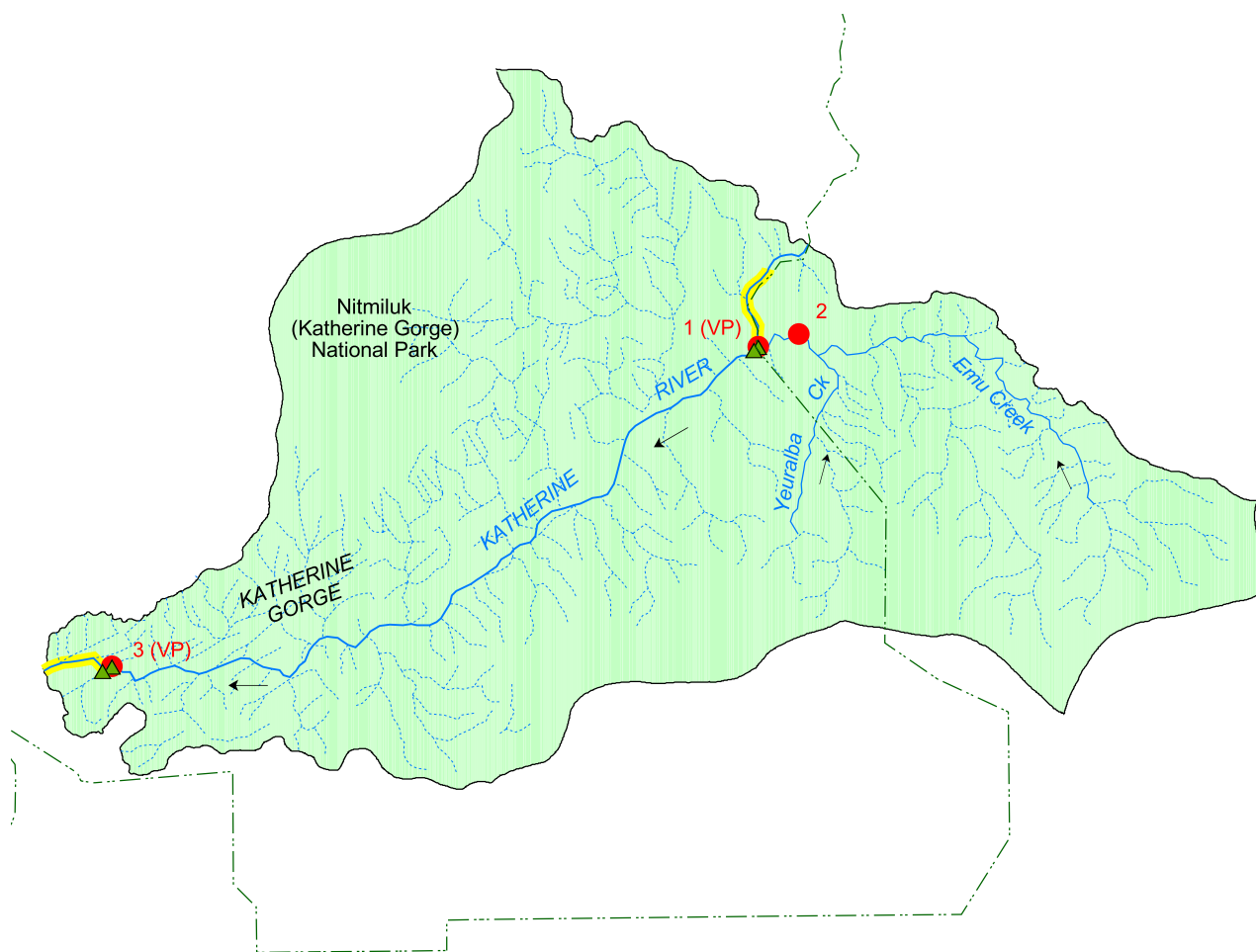


 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

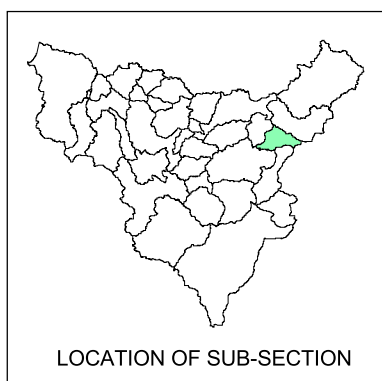
# KATHERINE RIVER

## Below Seventeen Mile Creek

### SUB-SECTION 19b



Area - 713 km<sup>2</sup>



- LEGEND**
- 5 Site
  - ▲ Sample Point
  - (VP) Vegetation Profile
  - Longitudinal Profile Survey
  - River
  - Creek
  - ← Flow direction



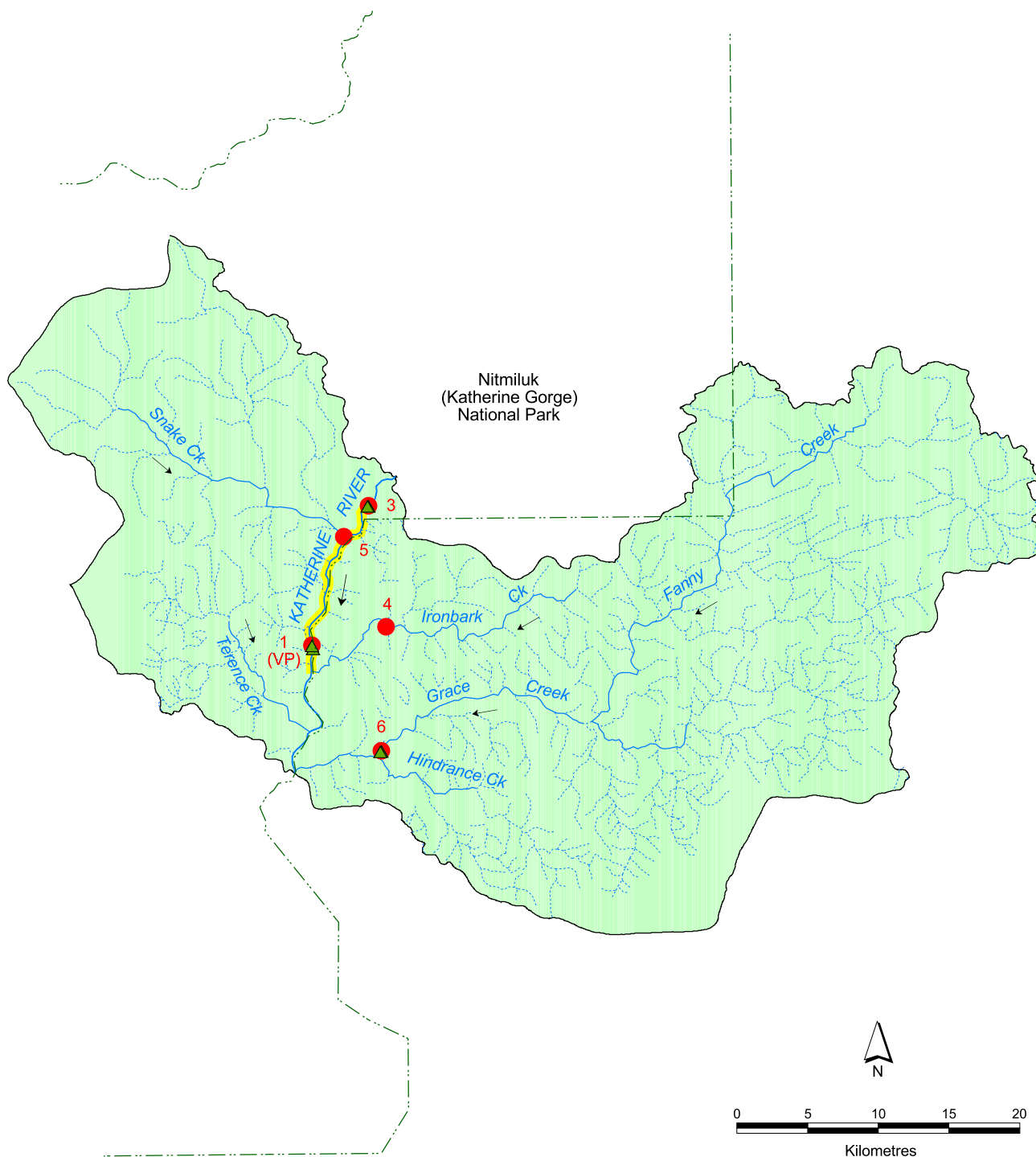
TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

# KATHERINE RIVER

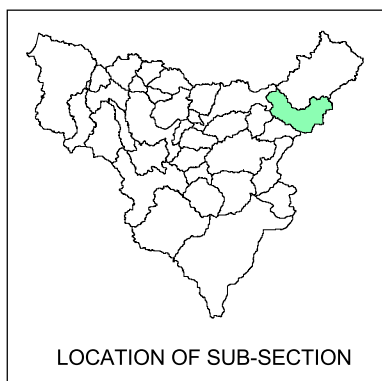
## Below Grace & Fanny Creeks

### SUB-SECTION 19c

Map 51



Area - 1,782 km<sup>2</sup>



- LEGEND**
- 5 Site
  - ▲ Sample Point
  - (VP) Vegetation Profile
  - Longitudinal Profile Survey
  - River
  - Creek
  - ← Flow direction

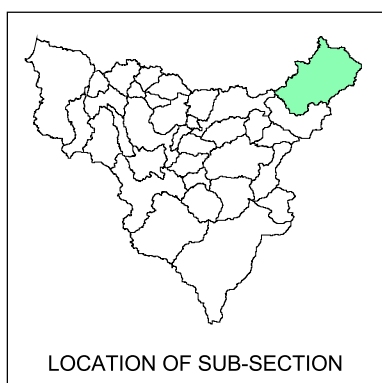
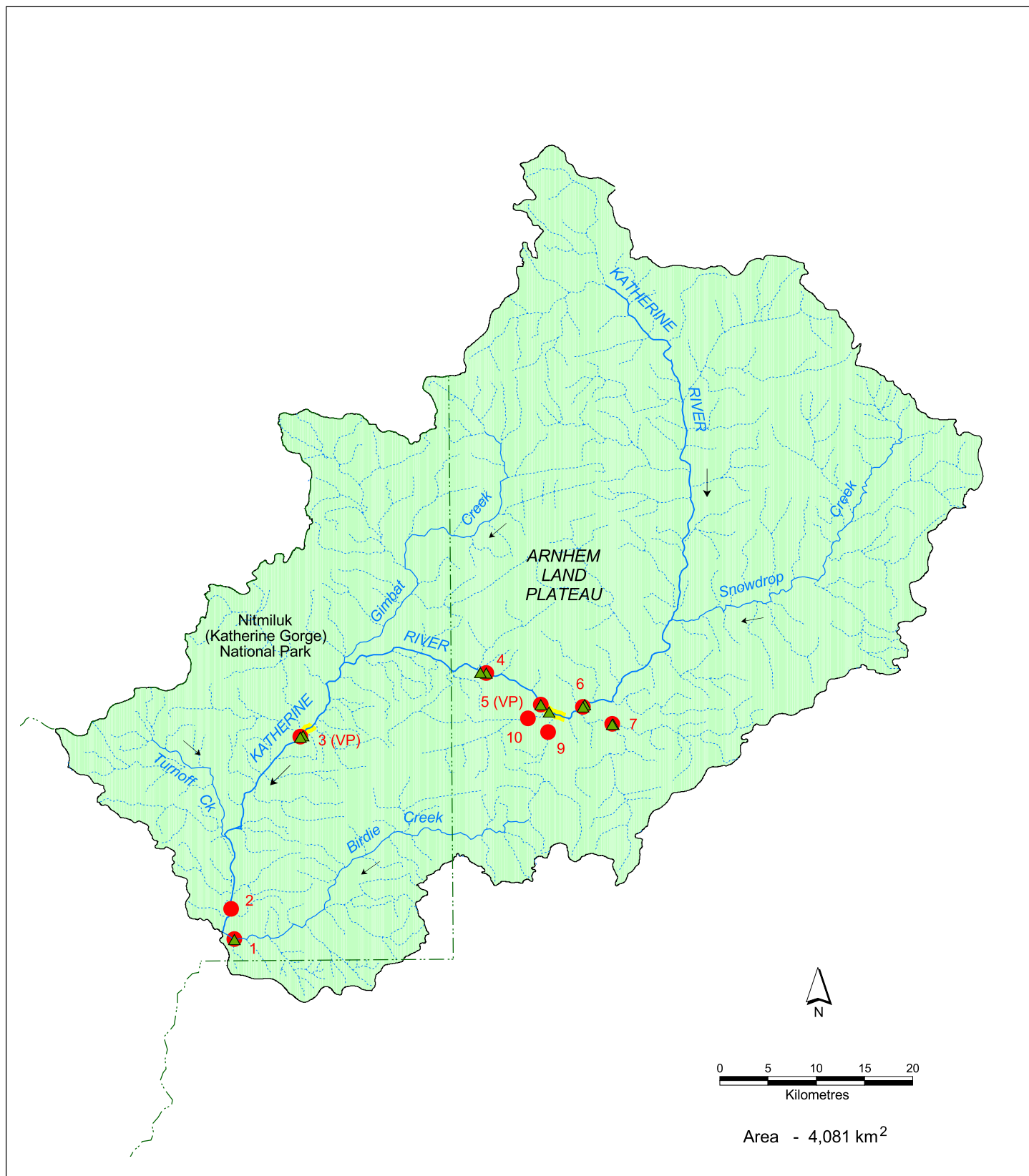
 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## KATHERINE RIVER Below Birdie Creek

SUB-SECTION 19d

Map 52





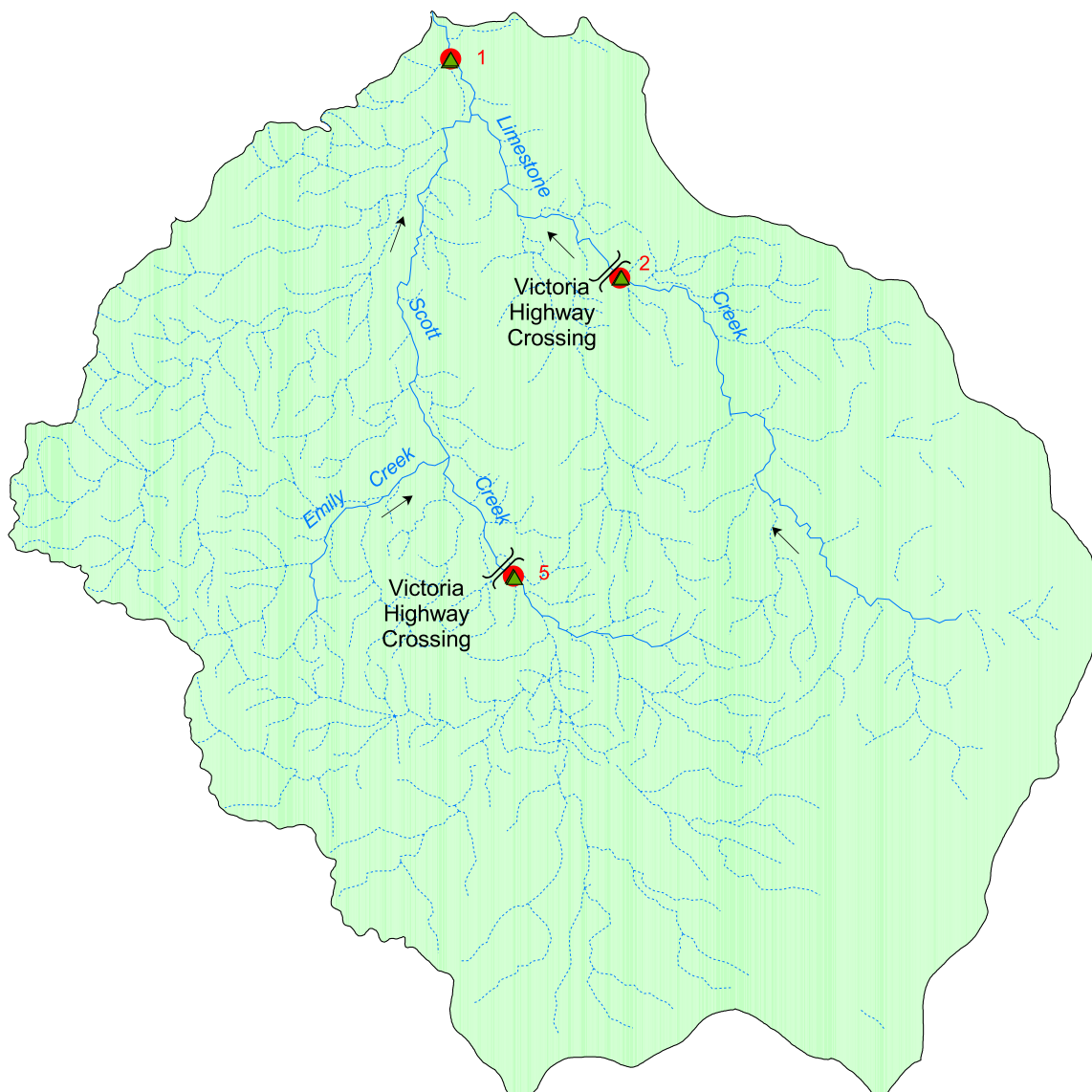
LEGEND	
<span style="color: red;">●</span> 5	Site
<span style="color: green;">▲</span>	Sample Point
<span style="color: red;">(VP)</span>	Vegetation Profile
<span style="color: yellow;">—</span>	Longitudinal Profile Survey
<span style="color: blue;">—</span>	River
<span style="color: lightblue;">—</span>	Creek
<span style="color: black;">←</span>	Flow direction

 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

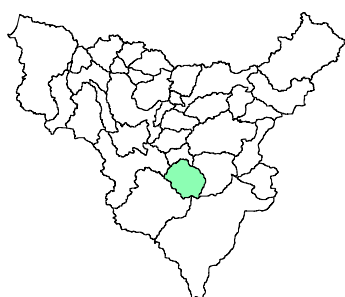
## KATHERINE RIVER Upper Katherine River

SUB-SECTION 19e

Map 53



Area - 1,275 km<sup>2</sup>



LOCATION OF SUB-SECTION

- LEGEND**
- 5 Site
  - ▲ Sample Point
  - (VP) Vegetation Profile
  - Longitudinal Profile Survey
  - River
  - Creek
  - ← Flow direction

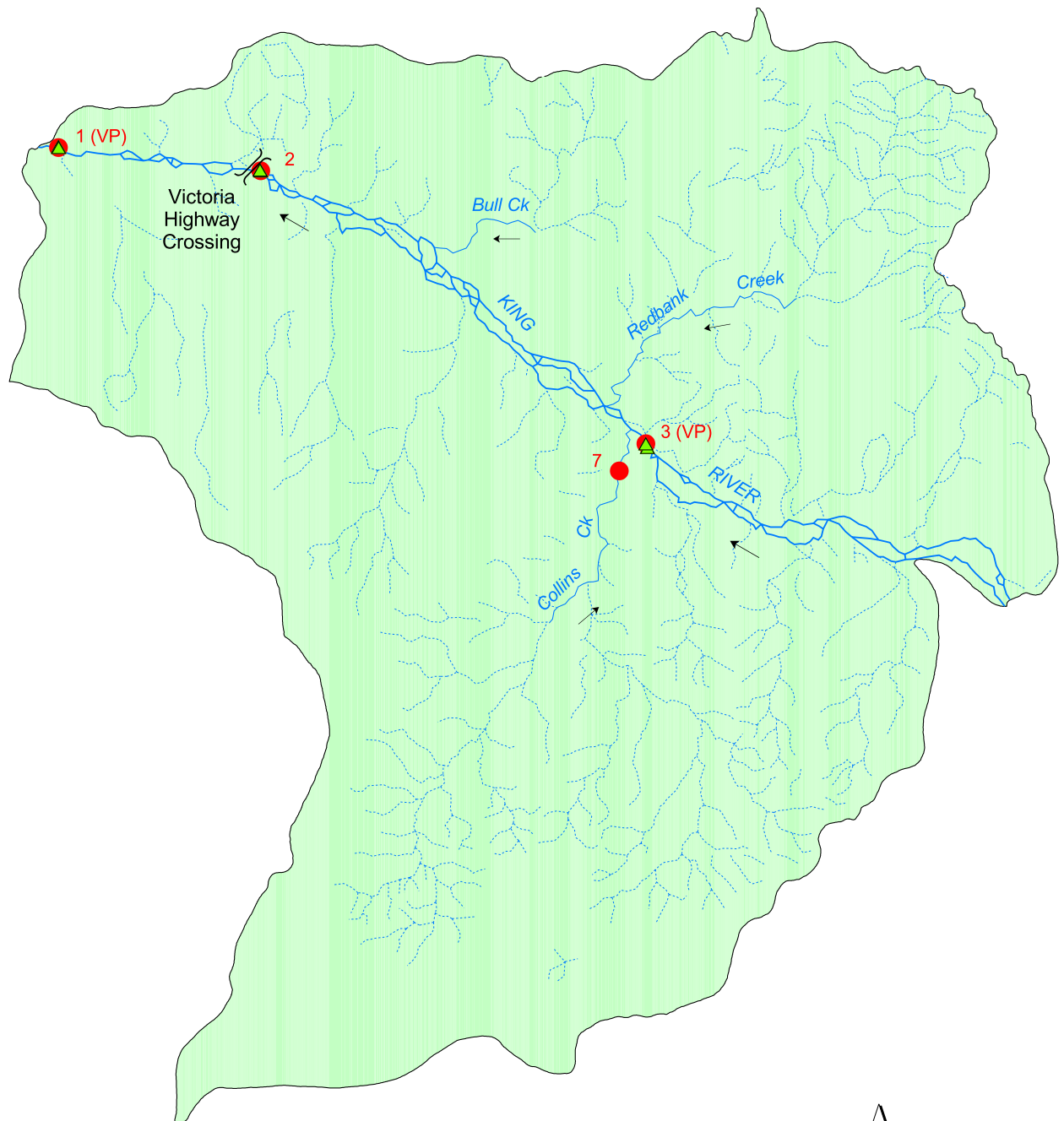


TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

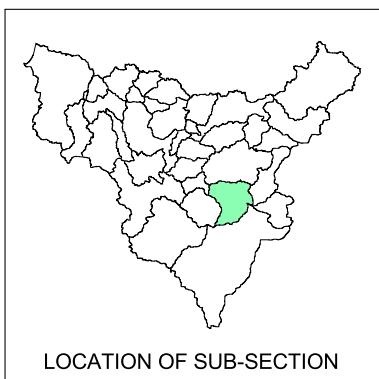
## LIMESTONE AND SCOTT CREEKS

SUB-SECTION 20

Map 54



Area - 1,636 km<sup>2</sup>



- LEGEND**
- 5 Site
  - ▲ Sample Point
  - (VP) Vegetation Profile
  - Longitudinal Profile Survey
  - River
  - Creek
  - ← Flow direction

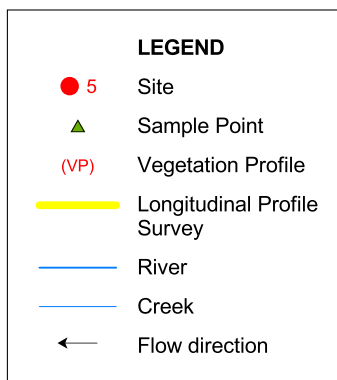
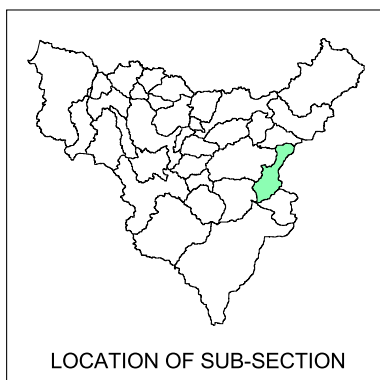
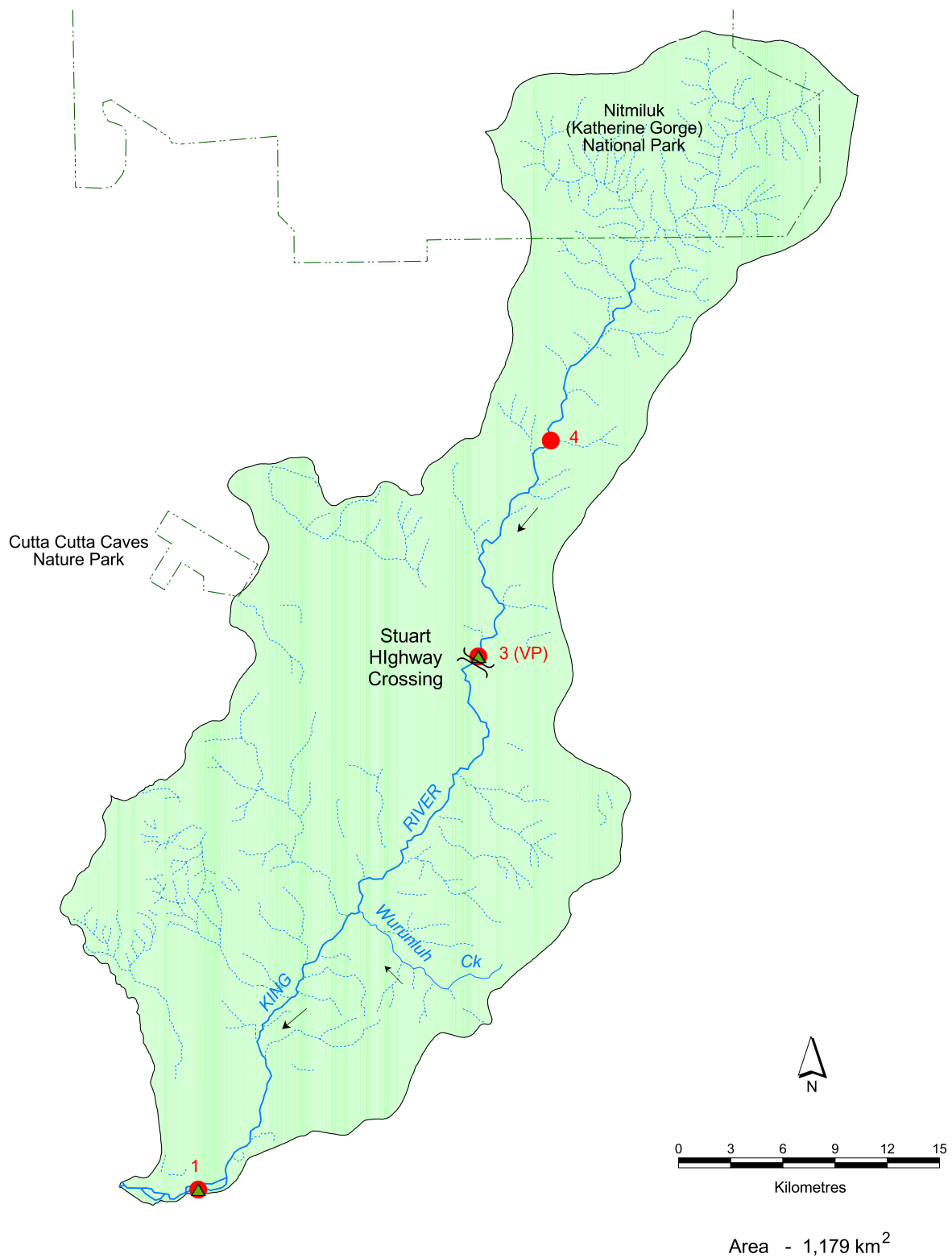


TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

## KING RIVER Below Dry River

SUB-SECTION 21a

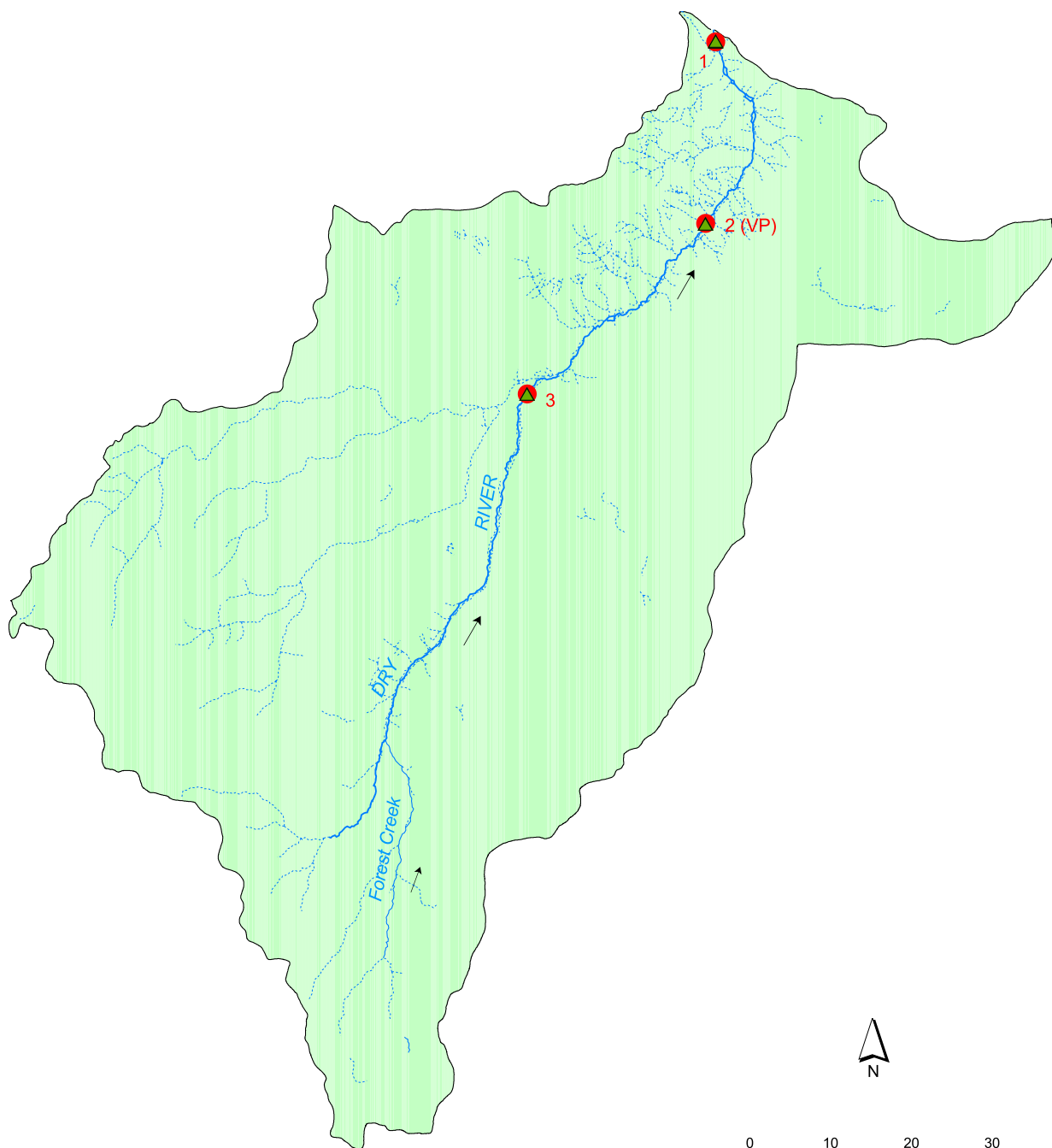
Map 55



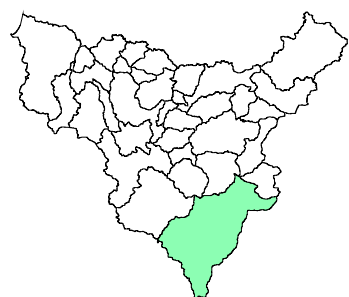
## KING RIVER Above Dry River

**SUB-SECTION 21b**

**Map 56**



Area - 7,208 km<sup>2</sup>



LOCATION OF SUB-SECTION

- LEGEND**
- 5 Site
  - ▲ Sample Point
  - (VP) Vegetation Profile
  - Longitudinal Profile Survey
  - River
  - Creek
  - ← Flow direction

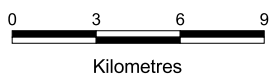
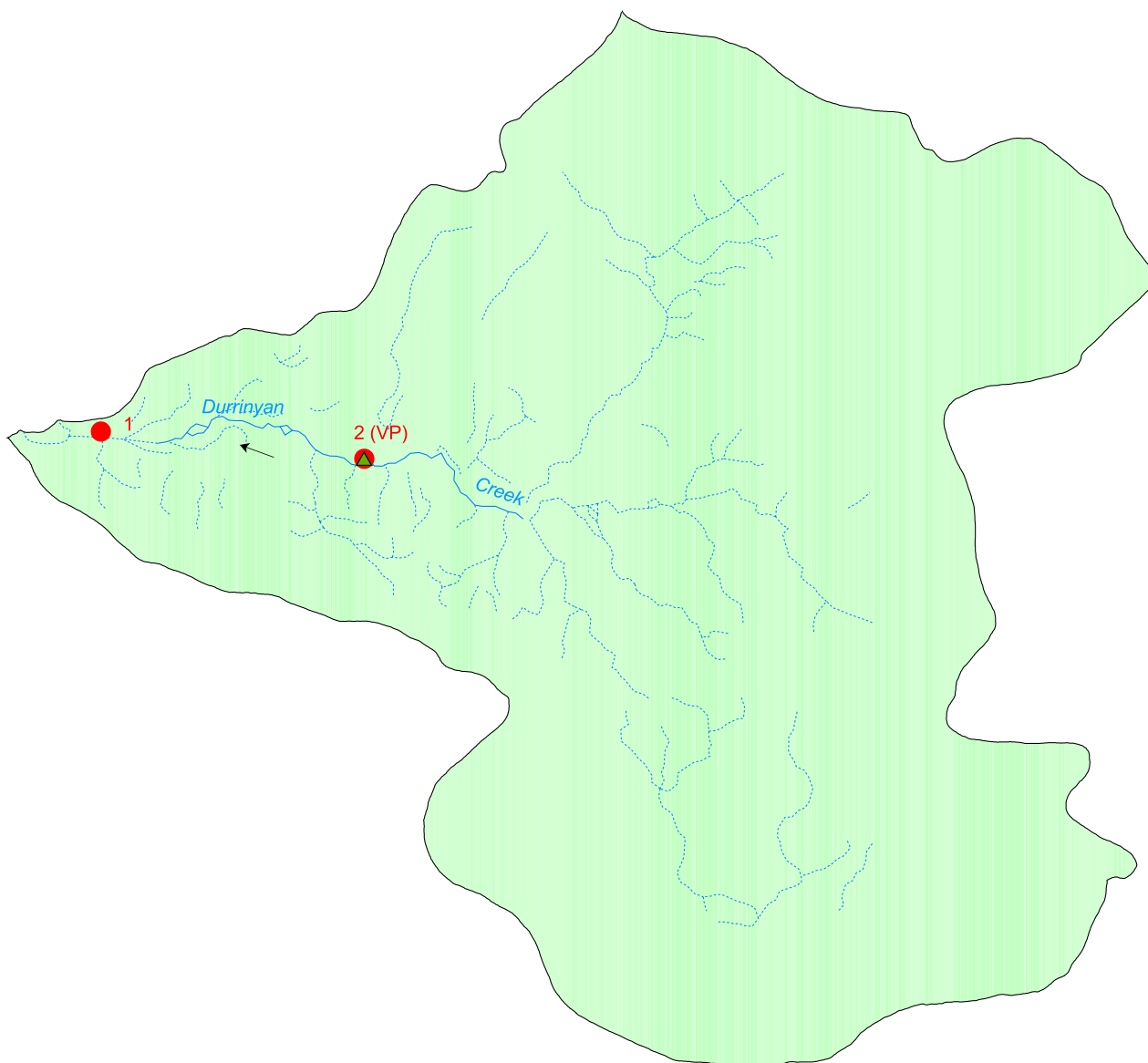


TOP END WATERWAYS PROJECT  
**DALY RIVER CATCHMENT**

## DRY RIVER

### SUB-SECTION 22





Area - 989 km<sup>2</sup>



LOCATION OF SUB-SECTION

#### LEGEND

- 5 Site
- ▲ Sample Point
- (VP) Vegetation Profile
- Longitudinal Profile Survey
- River
- Creek
- ← Flow direction

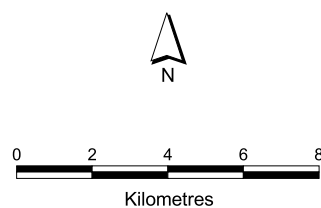
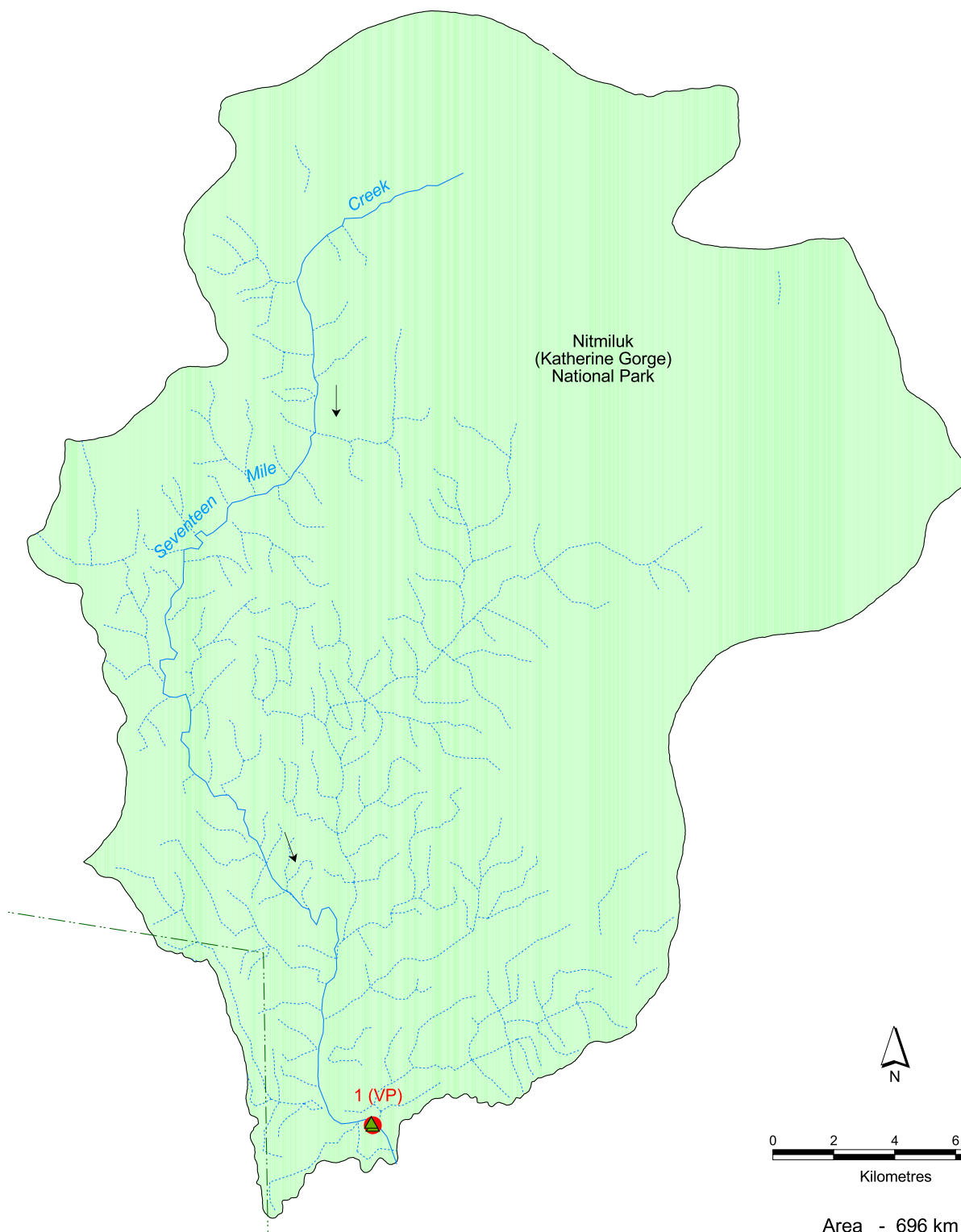


TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

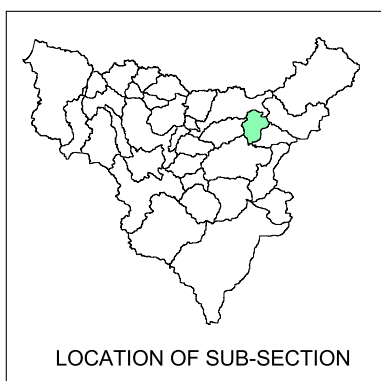
## DURRINYAN CREEK

### SUB-SECTION 23

Map 58



Area - 696 km<sup>2</sup>



LEGEND	
<span style="color: red;">●</span> 5	Site
<span style="color: green;">▲</span>	Sample Point
<span style="color: red;">(VP)</span>	Vegetation Profile
<span style="color: yellow;">—</span>	Longitudinal Profile Survey
<span style="color: blue;">—</span>	River
<span style="color: lightblue;">—</span>	Creek
<span style="color: black;">←</span>	Flow direction

 TOP END WATERWAYS PROJECT  
DALY RIVER CATCHMENT

# SEVENTEEN MILE CREEK

## SUB-SECTION 24