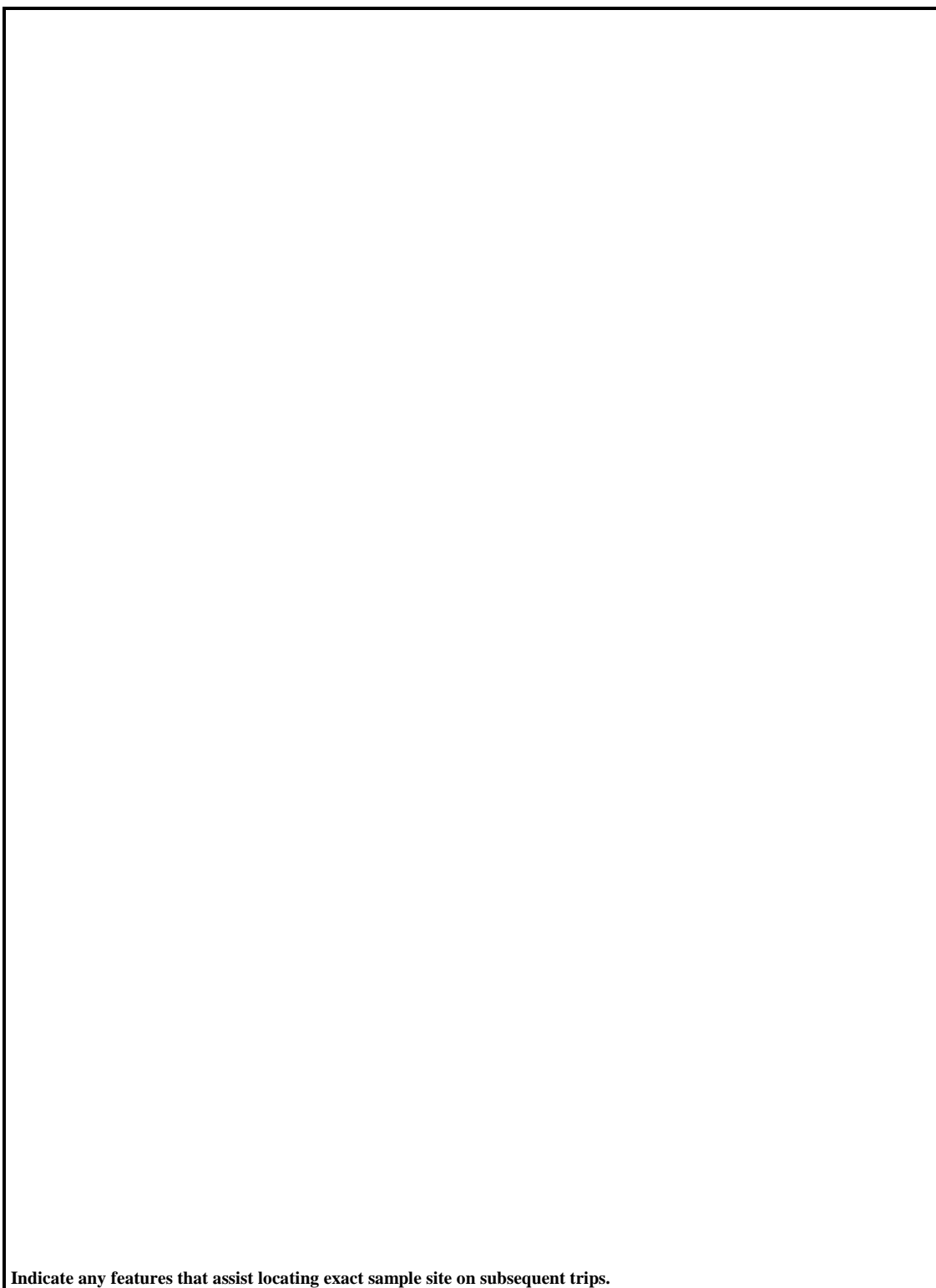


ACCESS SKETCH

SITE NAME

SITE CODE



Indicate any features that assist locating exact sample site on subsequent trips.

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SITE DESCRIPTION

Basin

River

Tributary

Disturbance

- .. Little
- .. Moderate
- .. High

Impacts

- .. Pastoralism
- .. Mining
- .. Urban
- .. Industrial discharge
- .. Impoundments
- .. Agri/horticulture

Landholders and contact details

Site history and comments

Map name

Map scale

Map datum

Altitude

(m)

Catchment area

(km²)

Distance from source

(m)

Stream order

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WATER QUALITY

Date	Site Code	Field Team	
Time		Horiba Serial No.	
pH	units	E.C.	µScm⁻¹
D.O.	mg/L	Turbidity	NTUs
Water Temp	°C	Air Temp	°C
GPS Easting	Northing		

MACROINVERTEBRATE SAMPLING

<u>EDGE</u>	Length sampled _____ m	Substrate 100%	_____ % Bedrock			
	Sampling depth _____ cm		_____ % Boulders (>256mm)			
	Collected by _____		_____ % Cobbles (64-256mm)			
	Containers used _____		_____ % Pebbles (16-64mm)			
	Fine organics, mud, muck _____ %*		_____ % Gravel (4-16mm)			
	Coarse organics, sticks, leaves _____ %*		_____ % Sand (1-4mm)			
	*Does not have to total 100%		_____ % Silt/Clay (<1mm)			
Percentage coverage	<10	10-35	35-65	65-90	>90	
Algal cover	0	1	2	3	4	Edge description
Adjacent macrophytes	0	1	2	3	4	.. Vertical 90°
Overhanging vegn	0	1	2	3	4	.. Angled 45-90°
Trailing root vegn	0	1	2	3	4	.. Undercut

<u>SAND/SILT BED</u>	Length sampled _____ m	Substrate 100%	_____ % Bedrock
	Sampling depth _____ cm		_____ % Boulders (>256mm)
	Collected by _____		_____ % Cobbles (64-256mm)
	Containers used _____		_____ % Pebbles (16-4mm)
	Fine organics, mud, muck _____ %*		_____ % Gravel (4-16mm)
	Coarse organics, sticks, leaves _____ %*		_____ % Sand (1-4mm)
	*Does not have to total 100%		_____ % Silt/Clay (<1mm)
Sand sweep description			
.. Horizontal			
.. Angled 0-45°	Percentage coverage	<10	10-35
.. Angled 45-90°	Algal cover	0	1
.. Shallow <20cm	Adjacent macrophytes	0	1
.. Deep 20-50cm	Overhanging vegn	0	1

PHYSICAL CHARACTERISTICS

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Habitat velocities & depths **Flow meter serial no. _____ Fan set no. _____**

Habitat	Meter Readings (Revolutions per 40s)			Fan details	Habitat depths (cm)		
	1	2	3		1	2	3
Edge							
Sand/silt bed							

Channel Transects (m) Indicate: Estimated/Measured

Transects	Widths	Depth 1/4 way <small>LH bank facing downstream</small>	Depth 1/2 way	Depth 3/4 way <small>LH bank facing downstream</small>
1 <small>furthest upstream</small>	E/M	E/M	E/M	E/M
2	E/M	E/M	E/M	E/M
3 <small>furthest downstream</small>	E/M	E/M	E/M	E/M

Habitats within 100m reach (Estimate % habitat components looking from above)

HABITAT	% TOTAL AREA	HABITAT	% TOTAL AREA
Sand/Silt bed		Macrophytes	
Gravel/Rock bed		Snags	
Riffle		Pool/Edge/ unknown substrate	

Width between top of levee banks _____ **m**

Width between immediate stream banks (if different to above) _____ **m**

Height of levee bank from water surface _____ **m**

Riparian zone width -left bank (facing downstream) _____ **m**

- right bank _____ **m**

Flow Level

Relative to normal dry season flow, if known. Normal inundation level marked by limit of terrestrial grasses or by eroded area, or boundary in bank sediment types. (Note: These markers may not be relevant to Top End rivers.)

1 low **2 moderate** **3 high** **4 flood**
<watermark = watermark >watermark

1 no flow **2 flow** **3 unknown**

RIPARIAN VEGETATION (within 100m reach)

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Vegetation cover of river (Estimation of shade on river at midday)

“ <5% “ 6-25% “ 26-50% “ 51-75% “ >76%

Vegetation type	% Cover <small>(use Specht chart)</small>	Description
trees (>10m)		
trees (<10m)		
shrubs / vines		
grasses / ferns / sedges		

Native vegetation _____%

Exotic vegetation _____%

Weed types:

Erosion in Riparian Zone

	Left Bank (facing downstream)	Right Bank	
Bare ground above water mark <small>(due to erosion/disturbance)</small>	1 yes 2 no	3 yes 4 no	
Tree roots exposed <small>(due to erosion/disturbance)</small>	1 yes 2 no	3 yes 4 no	
Gully erosion	1 yes 2 no	3 yes 4 no	
Slumping banks	1 yes 2 no	3 yes 4 no	
Excessive fallen trees/wood debris <small>(due to erosion/disturbance)</small>	1 yes 2 no	3 yes 4 no	
Local Catchment Erosion	1 none 2 little	3 moderate	4 heavy

Landuse (left bank) facing downstream

Landuse (right bank)

“ Native Woodland” Forestry

“ Native Woodland” Forestry

“ Recreational

“ Grazing

“ Recreational

“ Grazing

“ Cropped

“ Residential

“ Cropped

“ Residential

“ Commercial

“ Industrial

“ Commercial

“ Industrial

“ Other.....

“ Other.....

OBSERVATIONS

Score

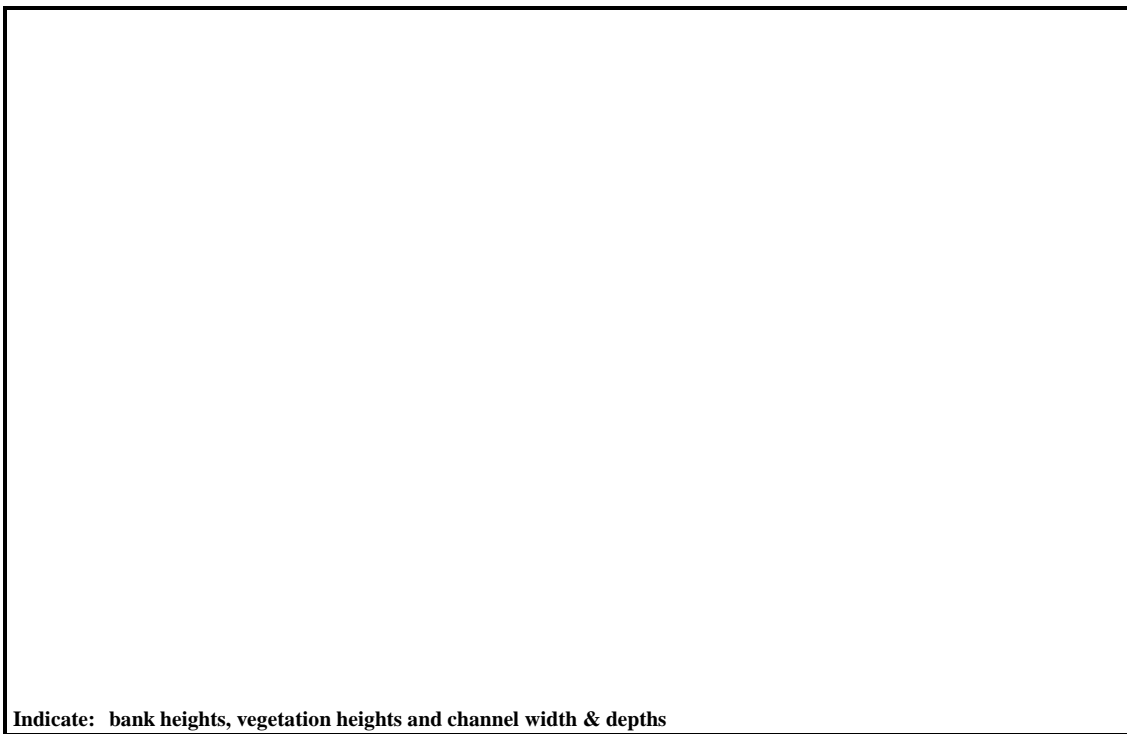
Water	1 clear	2 good	3 fair	4 poor	
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Indicate: n water quality measurements macroinvertebrate habitats cross section location
• water sample collection 10m sweeps transect measurements
Δ direction of photographs ← direction of flow location of vehicle access

SKETCH OF CHANNEL CROSS SECTION



Indicate: bank heights, vegetation heights and channel width & depths