

Basin  Sub-section  Site  Tributary Name

**NON SURVEY**

Total Catchment Area Upstream (Sq. km)   
 Length perennial streams (km)   
 Basin Length (km)   
 Subsection Catchment Area Upstream (Sq. km)   
 Total Catchment Area Upstream (Sq. km)


Q1 year   
 Q2   
 Q100   
 Maximum flood   
 Q design base flow   
 Q design bank full   
 Q design flood   
 Estimated Max Vel.





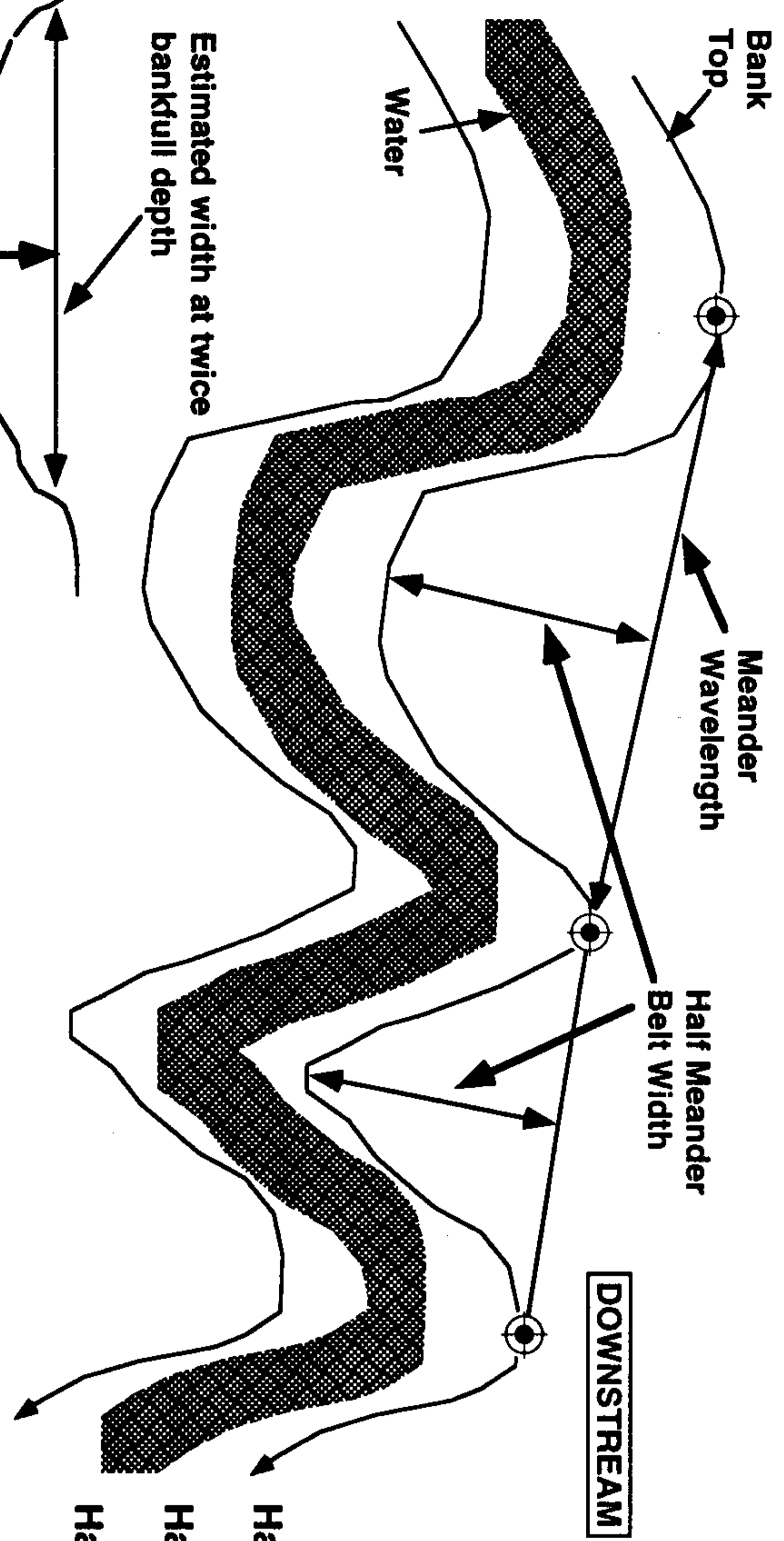
From Map - most detailed possible

sinuosity (20 channel widths or 2 meander wavelengths)  
 local gradient  
 average section gradient (degrees)  
 average hillslope angle,(degrees), of 3 within 300m  
 valley width  
 embeddedness (measure width at 2 times bankfull depth)  
 stream substrate roughness  
 imperviousness - within section  
 imperviousness - total catchment area upstream  
 riffle pool spacing (historical)  
 riffle pool spacing (current)


orientation aspect  
 meander wavelength (historical)  
 meander wavelength (current)  
 meander belt width (historical)  
 meander belt width (current)  
 bed roughness  
 bank roughness  
 floodplain roughness  
 stream order -non accumulative  
 stream order -accumulative  
 bankfull width  
 valley slope


**UPSTREAM**

**SURVEY - Note: combine with the cross-section measurements**



**Methods:**

Measure meander wavelength for at least two wavelengths, and the half meander belt widths for the meanders (banktop or watermark).  
 Using an inclinometer measure the stream gradient at the water level (preferred), water mark or banktop by sighting to your partner's head. The measurement should be made looking upstream over a distance of 2 meander wavelength or 20 times the bankfull width.

gradient @ water surface  degrees  
 gradient @ water mark  degrees  
 gradient @ banktop  degrees

Meander wavelength reading 1  metres  
 Half meander belt width reading 1   
 Meander wavelength reading 2   
 Half meander belt width reading 2   
 Meander wavelength reading 3   
 Half meander belt width reading 3

av. dist. between start of pools   
 average channel depth below banktop   
 est. width at banktop height   
 est. width at twice banktop height

Suitability for natural design

poor	<input type="checkbox"/>	Adequate available buffer	<input type="checkbox"/>
moderate	<input type="checkbox"/>	Buffer public land or open space	<input type="checkbox"/>
good	<input type="checkbox"/>	Links to good habitat upstream	<input type="checkbox"/>
very good	<input type="checkbox"/>	Biota potential	<input type="checkbox"/>