Site:		Number:														
Description	Description of the site:															
Width:																
Depth																
Depth																
Depth																
	Wetted perimeter:															
Velocity:																
Position		1			Time 2			3			Total			Average time (total/3)		
Near Midstream Far																,
Bedload:																
Distance from near bank	1	1		Pebb		ble Size		4		5		T	Total		Average	

Calculations:

Cross-sectional Area:

A = Width x Mean Depth

Wetted perimeter:

The total length of the bed and bank sides that is in contact with the water in the channel.

Hydraulic Radius (Efficiency):

The ratio between the area of the cross-section of the river channel and the length of its wetted perimeter. The greater the Hydraulic radius the more efficient the river.

HR = <u>Cross sectional area</u> Wetted perimeter

Discharge:

The amount of water originating as precipitation that reaches the channel by surface runoff, throughflow and baseflow. Velocity of the river V, (m per second,), multiplied by the cross-sectional area of the river, A, (sq m). This gives the volume in cu m/sec or cumecs.

 $D = A \times V$