



Recording Sheet for River Investigation

Group members: _____

River Name: _____ Date: _____

TASK 1: Width, depth, bedload size and shape

Site 1				Site 2				Site 3			
Grid Reference:				Grid Reference:				Grid Reference:			
Channel width:				Channel width:				Channel width:			
Wetted Perimeter:				Wetted Perimeter:				Wetted Perimeter:			
Distance from bank (facing upstream, starting on left)	Depth (cm)	Pebble length (cm)	Pebble Roundness Score & HS / LS	Distance from bank (facing upstream, starting on left)	Depth (cm)	Pebble length (cm)	Pebble Roundness Score & HS / LS	Distance from bank (facing upstream, starting on left)	Depth (cm)	Pebble length (cm)	Pebble Roundness Score & HS / LS
0				0				0			

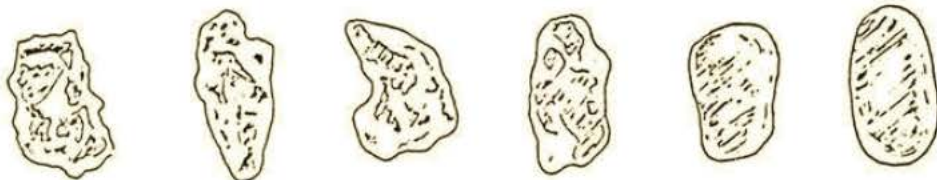
Power's Scale of Pebble Roundness

1 Very Angular 2 Angular 3 Sub-angular 4 Sub-rounded 5 Rounded 6 Well Rounded

High Sphericity (HS)



Low Sphericity (LS)



TASK of river bed

2: Gradient

Gradient (degrees)	Site 1	Site 2	Site 3
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TASK 3: Velocity

Float times measured over a distance of 5m								
	Time 1 (sec)	Time 2 (sec)	Time 3 (sec)	Time 4 (sec)	Time 5 (sec)	Average time (sec)	Velocity (m/sec)	Flow meter
Site 1								
Site 2								
Site 3								

TASK 4: Data Summary	Site 1	Site 2	Site 3
Grid reference			
Stream order			
Width (m)			
Wetted Perimeter (m)			
Average depth (m)			
Average pebble length (cm)			
Average pebble roundness			
Gradient (degrees)			
Velocity (m/sec) (floats)			
Velocity (flow meter)			
Cross sectional area (m ²)			
Discharge (m ³ / sec)			
Hydraulic radius			

Formulae to help with task 4

$$\text{Velocity (m/sec)} = \frac{\text{distance floats travelled (m)}}{\text{average float time (sec)}}$$

$$\text{Cross sectional area (m}^2\text{)} = \text{width (m)} \times \text{average depth (m)}$$

$$\text{Discharge (m}^3\text{ / sec)} = \text{velocity (m/sec)} \times \text{cross sectional area (m}^2\text{)}$$

$$\text{Hydraulic radius} = \frac{\text{cross sectional area (m}^2\text{)}}{\text{wetted perimeter (m)}}$$

