

BC Ministry of Environment

DISCHARGE MEASUREMENT FIELD DATA AND CALCULATION, V2.0 (Excel Spreadsheet Multis is valid for upto 62 measurement points)

Section 1: Site Information

Station Operating Agency/Firm:	Water Stewardship Inc		
Station Name:	Ayum Creek Near Mouth	EMS ID:	E12345
Station Number:	sdas	Project No. (if any) e.g., FIA):	99HYD040
Date (yyyy/mm/dd):	2007-05-13	Metered By:	B. Booker
Air Temperatures (°C):	10.2	Water Temperatures (°C):	5.4
Location of Metering Section:	23 Metres d/s of recorder		

	Time, PST (24h:mm)	Ref. Gauge (m)	I.G. (m)	Recorder (m)
Begin	11:47	0.894		0.894
End	12:37	0.875		0.875
Mean	12:12	0.885		0.885
Gauge Correction (m):	0.000			
C.G.H. (m):	0.885			

Total Discharge (m³/sec):	4.543	Total Area (m²):	7.636	Avg. Velocity (m/s):	0.595
Water Surface Width (m):	11.100	No of Verticals:	24		

Meter: **Type:** OSS PC1 **No:** _____ **Fan #:** _____

Method of Suspension:	Standard or Bridge Rod is selected.
Options: 1 = Top Setting Rod, 2 = Standard or Bridge Rod, 3 = Cable and Weight.	
If 3, Distance from bottom of weight to centroid of meter: _____	
Note: For use of above value refer to section 2.2, Depth.	
Method of Suspension:	<u>2</u>

Meter Type:	Multiple Range Meter is Selected.						
V = Velocity(m/s) and n = Revolutions / Second. Fill in ALL fields of only ONE of the following meter types and leave the other blank. If both equations are filled, the single range equation will be used.							
Single Range Meter Equation							
V = n * <input type="text" value="Slope"/>	+ <input type="text" value="Intercept"/> m/s						
Multiple Range Meter Equation							
n(Min)	< n <	n(Max)	V = n *	Slope	+	Intercept	m/s
0		5.50		0.1048		0.0084	m/s
5.50	<= n <=	99.00		0.1008		0.0304	m/s
	< n <						m/s

Remarks: _____

Methods Description	
2 = Two point measurement, 0.2 and 0.8 depths are measured.	
3 = Three point measurement, 0.2 and 0.6 and 0.8 depths are measured.	
5 = Point 5 measurement, 0.5 depth is measured. (only used for under ice conditions, 0.88 coefficient applied)	
6 = Point 6 measurement, 0.6 depth is measured.	
B = Waters edge, used at the start of all measurements, and after any "S" method.	(The first panel disch. may be based on an estimated velocity. See method E, below.)
E = Estimated velocity.	(Entered in Cos column as a % of adjacent measured velocity, ie 66% entered as .66. At least one adjacent measurement method should be 2, 3, 6 or 5)

