Water Action Volunteers

Name _____

Stream Sampled _____

Date _____ Time _____

1. SITE LOCATION

Location _____
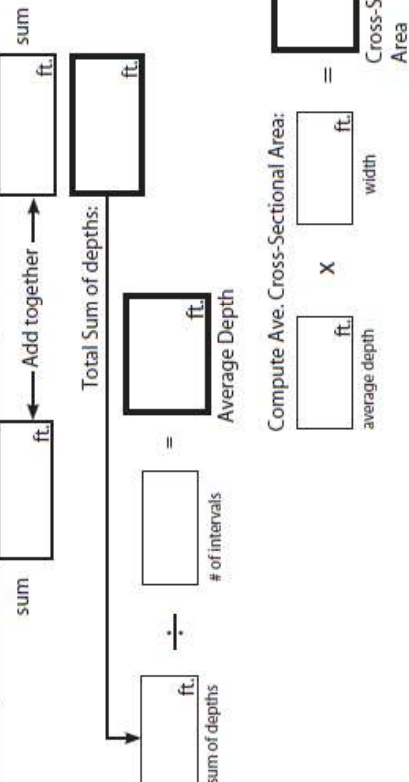(County, Road, Site # if known, Township, Range, Section)

Length Assessed: [____] ft.

2. STREAM WIDTH & DEPTH

Stream Width: [____] ft.

If stream ≤ 20 ft. wide, measure depth every foot across the width. If stream is > 20 ft. wide, measure depth at 20 equal intervals across the entire width.

Interval	Depth (ft./in.)	Depth (10th ft.)	Interval	Depth (ft./in.)	Depth (10th ft.)
1	0	0	11		
2			12		
3			13		
4			14		
5			15		
6			16		
7			17		
8			18		
9			19		
10			20		
	sum [____] ft.			sum [____] ft.	

Add together →

Total Sum of depths: [____] ft.

[____] sum of depths ÷ [____] # of intervals = [____] ft. Average Depth

Compute Ave. Cross-Sectional Area:

[____] ft. average depth × [____] ft. width = [____] ft.² Cross-Sectional Area

3. VELOCITY MEASUREMENT

Float Trials	Time (seconds)
1	
2	
3	
4	
sum	

[____] sum ÷ [____] # of trials = [____] sec. Average Float Time

[____] ft. length assessed ÷ [____] sec. ave. float time = [____] ft./sec. Ave. Surface Velocity

4. CALCULATING STREAM FLOW

Correction value for rough, loose, coarse, weedy bottom: 0.8
Correction value for smooth bottom: 0.9

[____] correction value × [____] ft./sec. ave. surface velocity = [____] ft./sec. Corrected Surface Velocity

STREAM FLOW:

[____] ft./sec. corrected surface velocity × [____] ft.² cross-sectional area = [____] cubic feet per sec.
(round to the nearest tenth)
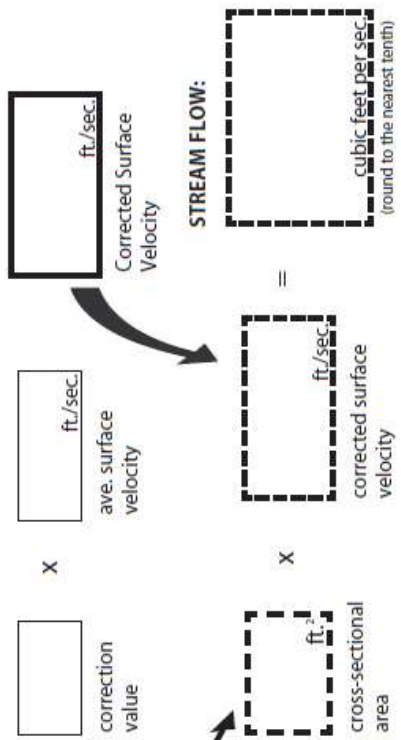
Depth Conversion Chart

Depth Conversion Chart			
Ft/in	10ths Ft	Ft/in	10ths Ft
⅜-⅞	0.05	6⅜-6⅞	0.55
1-1½	0.1	7-7⅜	0.6
1⅝-2	0.15	7½-8	0.65
2⅛-2⅝	0.2	8⅛-8⅝	0.7
2¾-3¼	0.25	8¾-9¼	0.75
3⅜-3⅞	0.3	9⅜-9⅞	0.8
4-4⅜	0.35	10-10⅜	0.85
4½-5	0.4	10½-11	0.9
5⅛-5⅝	0.45	11⅛-11⅝	0.95
5¾-6¼	0.5	11¾-12	1.0