Field Crew:	Site Code:					
Sampling Date: (DD/MM/YYYY)						
☐ Occupational Health & Safety: Site Inspe	ction Sheet completed					
PRIMARY SITE DATA						
CABIN Study Name:	Local Basin Name:					
River/Stream Name:	Stream Order: (map scale 1:50,000)					
Select one: Test Site Potential Reference Site						
Geographical Description/Notes:						
Surrounding Land Use: (check those present) Forest	Residential/Urban /Industrial Other					
Dominant Surrounding Land Use: (check one) ☐ Forest ☐ Field/Pasture ☐ Agriculture ☐ Logging ☐ Mining ☐ Commercial	☐ Residential/Urban					
Location Data						
Latitude:N Longitude:						
Elevation:(fasl or masl) GPS Datum: _	I GRS80 (NAD83/WGS84) LI Other:					
Site Location Map Drawing						
Note: Indicate north						



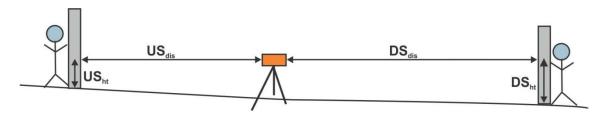
Field Crew:	Site Code:						
Sampling Date: (DD/MM/YYYY)							
Photos ☐ Field Sheet ☐ Upstream ☐ Downs ☐ Substrate (exposed) ☐ Substrate (aqua	_						
REACH DATA (represents 6 times bankfull width)						
Habitat Types: <i>(check those present)</i>	run 🔲 Pool/Back Eddy						
2. Canopy Coverage: (stand in middle of stream and look up, check one) □ 0 % □ 1-25 % □ 26-50 % □ 51-75 % □ 76-100 %							
3. Macrophyte Coverage: (not algae or moss, check	one) 5						
4. Streamside Vegetation: (<i>check those present</i>) ☐ ferns/grasses ☐ shrubs ☐	deciduous trees						
5. Dominant Streamside Vegetation: <i>(check one)</i> ☐ ferns/grasses ☐ shrubs ☐	deciduous trees						
6. Periphyton Coverage on Substrate: (benthic algae	, not moss, check one)						
 1 - Rocks are not slippery, no obvious colour (thin layer < 0.5 mm thick) 2 - Rocks are slightly slippery, yellow-brown to light green colour (0.5-1 mm thick) 3 - Rocks have a noticeable slippery feel (footing is slippery), with patches of thicker green to brown algae (1-5 mm thick) 4 - Rocks are very slippery (algae can be removed with thumbnail), numerous large clumps of green to dark brown algae (5 mm -20 mm thick) 5 - Rocks are mostly obscured by algal mat, extensive green, brown to black algal mass may have long strands (> 20 mm thick) 							
Note: 1 through 5 represent categories entered into the CABIN database.							
BENTHIC MACROINVERTEBRATE DATA							
Habitat sampled: (<i>check one</i>) ☐ riffle ☐ rapids ☐ straight run							
400 μm mesh Kick Net	Preservative used:						
Person sampling	Sampled sieved on site using "Bucket Swirling Method":						
Sampling time (i.e. 3 min.)							
No. of sample jars	If YES, debris collected for QAQC						
Typical depth in kick area (cm)							

Note: Indicate if a sampling method other than the recommended 400 μm mesh kick net is used.



Field Crew:	Site Code:						
Sampling Date: (DD/MM/YYYY)	_						
WATER CHEMISTRY DATA Time: (24 hr clock)	Time zone:						
Air Temp:(°C) Water Temp:(°C)	pH:						
Specific Conductance:(µs/cm) DO:(mg/L)	Turbidity:(NTU)						
Check if water samples were collected for the following analyses: TSS (Total Suspended Solids) Nitrogen (i.e. Total, Nitrate, Nitrite, Dissolved, and/or Ammonia) Phosphorus (Total, Ortho, and/or Dissolved) Major Ions (i.e. Alkalinity, Hardness, Chloride, and/or Sulphate)							
Note: Determining alkalinity is recommended, as are other analyses, but not require	uired for CABIN assessments.						
CHANNEL DATA Slope - Indicate how slope was measured: (check one)							
Calculated from map Scale: (Note: small scale map recommended if field measurement is not possible - i.e. 1:20,000). contour interval (vertical distance) (m), distance between contour intervals (horizontal distance) (m) slope = vertical distance/horizontal distance =							
OR							
☐ Measured in field Circle device used and fill out table according to device: a. Survey Equipment b. Hand Level & Measuring Tape							

Measurements	Upstream (U/S)	Downstream(D/S)	Calculation
^a Top Hairline (T)			
^a Mid Hairline (ht) OR			
^b Height of rod			
^a Bottom Hairline (B)			
Distance (dis) OR			US _{dis} +DS _{dis} =
^a T-B x 100	^a US _{dis} =T-B	^a DS _{dis} =T-B	
Change in height (Δht)			DS _{ht} -US _{ht} =
Slope (Δht/total dis)			





Field Crew:				Site Cod	de:		
Sampling Date: (DD/MM/YYYY)							
				_			
Widths and Depth							
•		4	ماند مدم	in aamanl		مالم مالنم	de area l
Location at site:							k area)
A - Bankfull Width:(m)					າ:	, ,	
C - Bankfull-Wetted Depth (height from	n water sur	face to Bar	nkfull):			(cm)	
Note: Wetted widths > 5 m, measure a minimum of 5-6 equidistant locations; Wetted widths < 5 m, measure 3-4 equidistant locations. Velocity and Depth Check appropriate velocity measuring device and fill out the appropriate section in chart below. Distance from shore and depth are required regardless of method: □ Velocity Head Rod (or ruler): Velocity Equation (m/s) = √ [2(ΔD/100) * 9.81] □ Rotary meters: Gurley/Price/Mini-Price/Propeller (Refer to specific meter conversion chart for calculation)							
☐ Direct velocity measurements: ☐				J Otner			
Distance force Observatory	1	2	3	4	5	6	AVG
Distance from Shore (m)							
Depth (D) (cm)							
Velocity Head Rod (ruler)					I		
Flowing water Depth (D ₁) (cm)							
Depth of Stagnation (D ₂) (cm)							
Change in depth (ΔD=D ₂ -D ₁) (cm)							
Rotary meter							
Revolutions							
Time (minimum 40 seconds)							
Direct Measurement or calculation							



Velocity (V) (m/s)

Field Crew:	Site Code:
Sampling Date: (DD/MM/YYYY)	

SUBSTRATE DATA

Surrounding/Interstitial Material

Circle the substrate size category for the surrounding material.

Substrate Size Class	Category
Organic Cover	0
< 0.1 cm (fine sand, silt or clay)	1
0.1-0.2 cm (coarse sand)	2
0.2-1.6 cm (gravel)	3
1.6-3.2 cm (small pebble)	4
3.2-6.4 cm (large pebble)	5
6.4-12.8 cm (small cobble)	6
12.8-25.6 cm (cobble)	7
> 25.6 cm (boulder)	8
Bedrock	9

100 Pebble Count & Substrate Embeddedness

- Measure the intermediate axis (100 rocks) and embeddedness (10 rocks) of substrate in the stream bed.
- Indicate B for bedrock, S for sand/silt/clay (particles < 0.2 cm) and O for organic material.
- Embeddedness categories (E): Completely embedded = 1, 3/4 embedded, 1/2 embedded, 1/4 embedded, unembedded = 0

	Diameter (cm)	E	Diameter (cm)	E		Diameter (cm)	E		Diameter (cm)	E
1		26			51			76		
2		27			52			77		
3		28			53			78		
4		29			54			79		
5		30			55			80		
6		31			56			81		
7		32			57			82		
8		33			58			83		
9		34			59			84		
10		35			60			85		
11		36			61			86		
12		37			62			87		
13		38			63			88		
14		39			64			89		
15		40			65			90		
16		41			66			91		
17		42			67			92		
18		43			68			93		
19		44			69			94		
20		45			70			95		
21		46			71			96		
22		47			72			97		
23		48			73			98		
24		49			74			99		
25		50			75			100		

Note: The Wolman D50 (i.e. median diameter), Wolman Dg (i.e. geometric mean diameter) and the % composition of the substrate classes will be calculated automatically in the CABIN database using the 100 pebble data. All 100 pebbles must be measured in order for the CABIN database tool to perform substrate calculations.



Field Crew:	Site Code:
Sampling Date: (DD/MM/YYYY)	_
SITE INSPECTION	
Site Inspected by:	
Communication Information	
☐ Itinerary left with contact person (include contact numbers)	
Contact Person: Time of	checked-in:
Form of communication: ☐ radio ☐ cell ☐ satellite ☐ hotel/pay phor	ne 🗆 SPOT
Phone number: ()	
Vehicle Safety	
\square Safety equipment (first aid, fire extinguisher, blanket, emergency kit	in vehicle)
☐ Equipment and chemicals safely secured for transport	
$\hfill \square$ Vehicle parked in safe location; pylons, hazard light, reflective vests	if necessary
Notes:	
Shore & Wading Safety	
☐ Wading Task Hazard Analysis read by all field staff	
☐ Wading Safe Work Procedures read by all field staff	
☐ Instream hazards identified (i.e. log jams, deep pools, slippery rocks)	
□ PFD worn	
☐ Appropriate footwear, waders, wading belt	
□ Belay used	
Notes:	

