





CABIN FIELD PROTOCOL CHECKLIST

		
DO NOT ENTER THE STREAM	Arrive at Site	MUST BE DONE FIRST
	<input type="checkbox"/> Inspect site for hazards and discuss with team.	
	<input type="checkbox"/> Fill out site inspection sheet after discussing with team (<i>last page of field sheet</i>).	
	<input type="checkbox"/> Perform visual scan to assess suitability (riffle, water level, etc.).	
	<input type="checkbox"/> Pre chosen sites: confirm basin name, site code, coordinates, test or potential reference status.	
	<input type="checkbox"/> Visually estimate reach, 6 x bankfull width.	
	<input type="checkbox"/> Decide where benthic/water sampling will occur within reach. Consult old field sheets if applicable.	
	<input type="checkbox"/> Ensure safety gear is easily accessible.	
	<input type="checkbox"/> Record field crew, site code, and sampling date at the top of each page of field sheets.	
	Kick Net Sampling	
	<input type="checkbox"/> Choose riffle/run habitat for kick net sample.	
	<input type="checkbox"/> Plan kick path (zig-zag pattern to capture micro-habitats, move in upstream direction, avoid hazards).	
	<input type="checkbox"/> Perform 3 minute kick according to CABIN protocol requirements (<i>see Field Manual, pp. 31-32</i>).	ANYTIME AFTER BENTHIC MACROINVERTEBRATE COLLECTION
	Benthic Macroinvertebrate Samples	
	<input type="checkbox"/> Carefully transfer benthic sample from kick net to sample jars so that no sample is lost.	
	<input type="checkbox"/> Thoroughly rinse off larger rocks, sticks and freshly fallen leaves.	
	<input type="checkbox"/> If needed, use bucket swirling technique to remove excess debris.	
	<input type="checkbox"/> Label jars according to CABIN best practices (lid, inside, outside).	
	<input type="checkbox"/> Add correct preservative ratio, wearing appropriate PPE (safety glasses, gloves, etc.).	
<input type="checkbox"/> Fill in all fields in the benthic macroinvertebrate section of the field sheet.		
UPSTREAM OF KICK	Water Quality	
	<input type="checkbox"/> Measure water quality upstream of all disturbed areas.	
	<input type="checkbox"/> Position field probes in the main flow of the stream/river.	
	<input type="checkbox"/> Allow field probes and thermometer (if applicable) to stabilize before recording values.	
	<input type="checkbox"/> Record field probe measurements and time on the field sheet.	
	<input type="checkbox"/> Label water sample bottles before sampling with site code, date, and time.	
	<input type="checkbox"/> Collect and store water samples following CABIN best practices (<i>see Field Manual, pp. 30</i>).	
	Site Description, Location and Drawing	
	<input type="checkbox"/> Fill in geographical description/notes and land-use section.	
	<input type="checkbox"/> Fill in primary site data section.	
	<input type="checkbox"/> Complete location data section.	
	<input type="checkbox"/> Draw a map of the site from an aerial view.	
	<input type="checkbox"/> Include the following on the drawing: direction of flow, north arrow, kick area, reach, site access and notable stream features.	

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REPRESENTATIVE OF ENTIRE REACH		Site Photos	ANYTIME AFTER BENTHIC MACROINVERTEBRATE COLLECTION
	<input type="checkbox"/>	Take site photos in order (field sheet, upstream, downstream, across, substrate <i>with ruler</i>).	
	<input type="checkbox"/>	Indicate on field sheet which photos were taken plus any additional photos.	
		Reach Characteristics	
	<input type="checkbox"/>	Identify all in-stream habitat types present in reach (riffle, rapids, straight run, pool/back eddy).	
	<input type="checkbox"/>	Determine % canopy cover.	
	<input type="checkbox"/>	Determine % macrophyte coverage.	
	<input type="checkbox"/>	Identify types of streamside vegetation present.	
	<input type="checkbox"/>	Determine dominant streamside vegetation.	
	<input type="checkbox"/>	Determine periphyton coverage category of substrate (can be done with pebble count).	
		Slope	
	<input type="checkbox"/>	Measure slope over a minimum of 20 meters.	
	<input type="checkbox"/>	Follow CABIN best practices for collecting slope measures (<i>see Field Manual pp. 43-46</i>).	
	<input type="checkbox"/>	Read heights on survey rod and record on field sheet in correct boxes using <u>consistent</u> units.	
<input type="checkbox"/>	Confirm measurements are within expected range (most often < 0.1 m/m).		
IN RIFFLE WHERE KICK SAMPLE WAS TAKEN		Channel Measurements	ANYTIME AFTER BENTHIC MACROINVERTEBRATE COLLECTION
	<input type="checkbox"/>	Identify bankfull level in collaboration with team (<i>see Field Manual, p. 40</i>).	
	<input type="checkbox"/>	Measure bankfull width, wetted width, and bankfull-wetted height.	
	<input type="checkbox"/>	Determine target velocity sampling locations across the stream channel noting potential obstructions.	
	<input type="checkbox"/>	Measure velocity and depths standing downstream of measurements.	
	<input type="checkbox"/>	Record velocity and depth values on field sheet and indicate velocity device used.	
	<input type="checkbox"/>	Confirm measurements are reasonable *.	
		Substrate	
	<input type="checkbox"/>	Perform unbiased, randomized pebble count (100 rocks).	
	<input type="checkbox"/>	Measure the intermediate axis of rocks in correct units (cm).	
	<input type="checkbox"/>	Identify and record substrate categories for bedrock, organic material, and sand/silt (if applicable).	
	<input type="checkbox"/>	Assess embeddedness of 10 rocks.	
	<input type="checkbox"/>	Determine surrounding material category (substrate size class).	
<input type="checkbox"/>		Review of field sheet performed by second team member.	
<input type="checkbox"/>		Confirm field sheet is complete, units are correct and measurement values are reasonable.	
<input type="checkbox"/>		Explain empty fields where data is not collected.	
		Leave Site	
<input type="checkbox"/>		Pack up equipment properly, secure samples for transport.	
<input type="checkbox"/>		Look around site for any equipment and personal belongings, leave no trace.	

* VELOCITY NOTES: Velocity will feel different depending on sampler's size and experience level

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| 0 - 0.1 m/s | Basically still; ensure you are sampling in erosional (riffle) habitat |
| 0.2 m/s | Moving but slow |
| 0.3-0.4 m/s | Moving well but easily wadeable |
| 0.5 m/s | Feels fast in deeper water (above the knee) |
| 0.75 m/s | Feels fast even in shallower water (below-knee) |
| > 1 m/s | Challenging to wade |