

**STREAMKEEPERS OF CLALLAM COUNTY - Revised November 2016
BASIC QUARTERLY MONITORING FIELD DATA SHEET**

Episode ID#: _____ **Tour ID#:** _____ **Visit ID#:** _____ (enter in office)
(Includes physical-habitat parameters from Streamkeepers Volunteer Handbook; for reference only.)

Sampler in charge at this visit (if different than on Tour Cover Sheet): _____

Field Kit deviations: List any monitoring equipment used in this visit that differs from the kit/equipment on the Tour Cover Sheet; include model/serial #s or the number of the field kit that the item comes from:

General comments: (problems encountered, major changes to reach, other significant events, deviations from field procedures, or recent weather when different from what is on tour cover sheet):

**** FOR EACH PROTOCOL PERFORMED, PUT ALL INITIALS OF ONE PERSON RESPONSIBLE FOR THAT DATA.
** IF YOU FIND NONE, WRITE "NONE". ** DON'T PUT INITIALS IF YOU DIDN'T PERFORM THE PROTOCOL.**

Fish: (If unsure of species, write "fish," "salmonid," "coho?" etc.)						Sampler's initials:
Species	# adults	# juveniles	# dead	# redds	Description or comments	

Wildlife: (Refer to tracks & scat ID sheets as needed.)					Sampler's initials:
Species	Number	Sign	Location	Activity	

Noxious weeds: (Submit a report every summer, whether weeds are seen or not.)	Report submitted?	Yes ___	No ___	Sampler's initials:
	Weeds detected?	Yes ___	No ___	

Air temperature/thermometer:	_____ °C (to nearest whole °C)	Time:	Initials:
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Bank Stability Class (summer only):	(Circle one)	1	2	3	4	Sampler's initials:
<i>Refer to the protocol in your Field Procedures manual for definitions.</i>						

Photos taken? (see Handbook for protocol)	Yes ___	No ___	Sampler's initials:
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FOR SUMMER & WINTER PHOTOS: AT SITES WITHOUT ESTABLISHED CROSS-SECTION,
USE CENTRAL SAMPLING POINT (A.K.A. "ZERO POINT") AS CENTRAL POINT FOR PHOTOS.

(Cut below after inputting data into database and recording Visit ID# below; then give to photo processor.)

Photo log: Fill in completely for each picture, including vantage point (where it was taken from)

Site Name: _____ **Date:** ____/____/____ **Camera #:** _____

Initials	Frame # (xxx-xxxx)	Subject	Vantage Point

(enter in office) **Visit ID#:** _____

Flow: Protocol: Streamkeepers ___ Other: _____ **Primary sample / Replicate**
Method: Wade-across ___ Bucket ___ Single-point ___ Floating-object ___ ← (use for zero flows)
Time (military--to nearest min.): Start: _____ End: _____ ; starting at **LB / RB** (left/right bank facing downstream)

Problems noted:

If using a Swiffer meter:	Rotor #: <input style="width:50px;" type="text"/>	Rotor calibration # (on bag): <input style="width:50px;" type="text"/>	Calibration date: <input style="width:50px;" type="text"/>
	Hand-spin test (circle one): pass / fail	Meter calibration # (switch on "calibrate"): <input style="width:50px;" type="text"/>	
	Count test (circle one): pass / fail	Blow-spin test (circle one): pass / fail	

Use the diagram at the bottom to help you with the measurements below:

- = **LBWE:** Left Bank (facing downstream) wetted edge of dry land (tape measurement to 0.1 ft.)
- = **RBWE:** Right Bank (facing downstream) wetted edge of dry land (tape measurement to 0.1 ft.)
- = = **WW:** Wetted width; the difference between the above wetted edges (to 0.1 ft.)
- ÷ 10 = **MaxΔ:** **MAXIMUM INTERVAL;** the wetted width above divided by 10 (to 0.1 ft.)

MAXIMUM INTERVAL APPLIES EVEN OUTSIDE OF THE "PROP-TURNING" AREA!

[If wetted width is < 6.8 ft., use 0.3 ft. (the minimum interval) as the distance between flow measurements.]

- = **LBPT:** Tape measurement at **LB** "prop-turning" edge--outside point at which prop turns (to 0.1 ft.)
- = **RBPT:** Tape measurement at **RB** "prop-turning" edge--outside point at which prop turns (to 0.1 ft.)
- = = **PTW:** "Prop-turning" width; the difference between "prop-turning" edges above (to 0.1 ft.)
- ÷ 20 = **NomΔ:** **NOMINAL INTERVAL;** the "prop-turning" width divided by 20 (round **UP** to nearest 0.1 ft.)

*However, use smaller intervals in areas where velocity or depth is large or changing rapidly. BUT PLEASE NOTE: **MINIMUM INTERVAL = 0.3 ft.***

Include zero velocity readings 0.3 ft. to the outside of the first and last "prop-turning" locations where possible. When velocity is zero, indicate why: insufficient depth (*insf/d*) insufficient velocity (*insf/v*) or both (*insf/dv*)

Tape to nearest 0.1'	Depth to 0.01 ft.	Velocity* to 0.01 ft. per sec	Angle** to nearest 10°	Tape to nearest 0.1'	Depth to 0.01 ft.	Velocity* to 0.01 ft. per sec	Angle** to nearest 10°
	0	(wetted edge @ dry land)					
	0	(wetted edge @ dry land)					

Sampler's initials:

(* For depths >2 ft., record velocity readings at both 2/10 and 8/10 depths, and record both to be averaged.)
(** Estimate the tell-tail's deviation from straight downstream, then face the prop in the direction of the current.)

Stream stage: Before measuring flow: _____ ft / m; After: _____	Sampler's initials: _____
Stage Benchmark: stream gage / water-level at fixed point / top-down from fixed point (<i>mark as neg. #</i>)	
Describe fixed point: _____	

Floating-Object Flow: (circle:) Primary sample / Field replicate	Sampler's initials: _____
Mark Start & Finish lines across a stretch of the stream (≥ 10 ft.) with fairly uniform width, depth, and flow.	
Length of course (to 0.1 ft): <input style="width:80px;" type="text"/>	Avg width (to 0.1 ft.): <input style="width:80px;" type="text"/>
Avg depth (to 0.1 ft): <input style="width:80px;" type="text"/>	
Time trials (# of seconds)--do at intervals all the way across the creek:	
1) <input style="width:30px;" type="text"/>	2) <input style="width:30px;" type="text"/>
3) <input style="width:30px;" type="text"/>	4) <input style="width:30px;" type="text"/>
5) <input style="width:30px;" type="text"/>	6) <input style="width:30px;" type="text"/>
7) <input style="width:30px;" type="text"/>	8) <input style="width:30px;" type="text"/>
9) <input style="width:30px;" type="text"/>	10) <input style="width:30px;" type="text"/>
Avg: <input style="width:50px;" type="text"/>	
Calculations (can be done later): Average velocity = Length of course / Avg. time = <input style="width:80px;" type="text"/> ft/sec	
Friction factor (circle one) = 0.8 for a gravel/cobble-bottomed stream, 0.9 for a smooth-bottomed stream	
Flow (est.) = Avg. depth * Avg. width * Avg. velocity * Friction factor = <input style="width:80px;" type="text"/> ft ³ /sec (cfs) (round to 0.1)	

**STREAMKEEPERS OF CLALLAM COUNTY
YSI ProDSS FIELD DATA SHEET**

General comments (problems encountered, deviations from field procedures, or any notable water quality problems):

Meter name (circle one): SK1 / SK3 / other:

Calibration dates (only need to record if for a non-Streamkeepers project):

(File button / View GLP / hit Down arrow successively for dates):

Barometer: ___/___/___ Conductivity: ___/___/___ pH: ___/___/___ Turbidity: ___/___/___ ODO: ___/___/___

Primary samples:		Expected ranges:	If meter results do not fall into the expected ranges or are not close to the replicate, please re-calibrate and repeat.	Additional readings:	
Water temp:	<input type="text"/> °C (to nearest 0.1)	0-20			<input type="text"/>
Barometric pressure:	<input type="text"/> in. Hg (to nearest 0.01)	24-31	<input type="text"/>		<input type="text"/>
DO %Local:	<input type="text"/> % (to nearest whole #)	70-110	<input type="text"/>		<input type="text"/>
DO Concentration:	<input type="text"/> mg/L (to nearest 0.1)	6-15	<input type="text"/>		<input type="text"/>
Specific Conductivity:	<input type="text"/> μS/cm (to nearest whole #)	25-400	<input type="text"/>		<input type="text"/>
Salinity:	<input type="text"/> PSU (= ppt) (to nearest 0.1)	0-35	<input type="text"/>		<input type="text"/>
pH:	<input type="text"/> pH units (to nearest 0.1)	6.5 - 8.5	<input type="text"/>		<input type="text"/>
Turbidity:	<input type="text"/> FNU (to nearest whole #)	0-1000+	<input type="text"/>		<input type="text"/>
			Sampling Time:	<input type="text"/>	<input type="text"/>
			Sampler Initials*:	<input type="text"/>	<input type="text"/>

*PUT ALL INITIALS OF ONE PERSON RESPONSIBLE FOR THE DATA

Dissolved Oxygen drift check*--record DO%Local to nearest 0.1%:	Time:	Initials:
(*If performing field replicates at this site, do the drift check after the replicates--see below)		

(NOTE: Roll the die to determine at which reach to perform replicates -- record below.)

Field replicates:		Check sample/replicate deviations and re-test as necessary; see Handbook		Additional readings:	
Water temp:	<input type="text"/> °C (to nearest 0.1)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Barometric pressure:	<input type="text"/> in. Hg (to nearest 0.01)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
DO %Local:	<input type="text"/> % (to nearest whole #)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
DO Concentration:	<input type="text"/> mg/L (to nearest 0.1)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Specific Conductivity:	<input type="text"/> μS/cm (to nearest whole #)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Salinity:	<input type="text"/> PSU (= ppt) (to nearest 0.1)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
pH:	<input type="text"/> pH units (to nearest 0.1)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Turbidity:	<input type="text"/> FNU (to nearest whole #)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
				Sampling Time:	<input type="text"/>
				Sampler Initials:	<input type="text"/>