

STREAMKEEPERS OF CLALLAM COUNTY - Revised September 2009
MASTER REGULAR-TEAM QUARTERLY MONITORING FIELD DATA SHEET
 (Contains all parameters that regular teams monitor during the year; for reference only.)

(Note: site names & elevations are pasted to your Field Forms Folder.)

Monitoring season: _____ Year: _____ Project: SK regular monitoring / other (specify): _____

Samplers (incl. all initials + full last names): Sampler in charge: _____

Other samplers: _____

Field kit #: _____. Describe any monitoring equipment used that is not normally part of that number field kit. If possible, 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, recent weather, deviations from field procedures):

Chain of Custody / Quality Control Checks:

Action	Performed by	Initials	Date
Data reviewed for completeness, accuracy, & clarity	Stream team		___/___/___
Data submitted to Streamkeepers office	Stream team		___/___/___
Data received in Streamkeepers office	SK staff		___/___/___
Data reviewed for completeness & legibility	SK staff		___/___/___
Quality-control review of data	SK managers		___/___/___
Data entered into database	Staff/volunteers		___/___/___
Database checked against field sheets	Staff/volunteers		___/___/___

** 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			

New or advancing noxious weeds at this site? Yes ___ No ___ Didn't check ___ If "yes," complete a separate Noxious Weed report (in your forms folder).	Sampler's initials:
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Photos taken at this site on this date? Yes ___ No ___ Sampler's initials: _____
 (Cut below after receiving in office--give to photo processor.)

STREAMKEEPERS OF CLALLAM COUNTY -- DATA SHEET PHOTO LOG

Site Name: _____ Date: ___/___/___ Sampler's initials: _____

FOR SUMMER & WINTER PHOTOS: AT SITES WITHOUT ESTABLISHED CROSS-SECTION, USE CENTRAL SAMPLING POINT (A.K.A. "ZERO POINT") AS CENTRAL POINT FOR PHOTOS. Visit ID#: _____ (enter in office)

Photo Log: fill in the log below completely for each picture including where it was taken from (use back of sheet if needed)

Roll#	Photo#	Subject	Vantage Point

Note: Please measure gradient at new sites or where your team has been requested to.

Gradient*:	Pupil height	Depth of sighter in water	Depth of rod in water	Sight height	Distance	Sampler's initials:
Measure all to nearest 0.1 ft.:						
Measure all to nearest 0.1 ft.:						

*Perform protocol more than once with different sighters when possible.

Macroinvertebrate Sampling:	Rep #1	Rep #2	Rep #3	Sampler's initials:
Upstream or downstream of zero-point (circle):	up / dn	up / dn	up / dn	
Distance from zero-point (to nearest foot):	ft.	ft.	ft.	
Average water depth (to nearest inch)	in.	in.	in.	
Width of riffle (to nearest foot)	ft.	ft.	ft.	
Length of riffle (to nearest foot)	ft.	ft.	ft.	
Number of sample jars for each replicate				

Comments (difficulties sampling, unusual stream conditions, variations from protocol, etc.):

(Can cut here: ↑) Site name: _____ Date: ___/___/___

Pebble Count: Place where you did your sampling:		Sampler's initials:
<input type="checkbox"/> Near cross-section transect <input type="checkbox"/> _____ ft. up- / down- stream of cross-section		
Classes (mm):	Tallies--make each tally in only one of the two columns below:	
	Loose pieces:	Embedded pieces:
fines(<4)		
>4		
>5.7		
>8.0		
>11.3		
>16.0		
>22.6		
>32.0		
>45.3		
>64.0		
>90.5		
>128.0		
>181.0		
>256.0		
>362.0		
>512.0		
Running-total tally: (To count to 100)		

Bank Stability Class: (Circle one)	1	2	3	4	Sampler's initials:
<i>Refer to the protocol in your Field Procedures manual for definitions.</i>					

Canopy Closure:	# of shaded dots facing:	Dn	RB	Up	LB	Sampler's initials:
<i>(Either count shaded dots or subtract # of unshaded from 96.)</i>						

Canopy Type	Conifer:	___ 0-5%	___ 6-50%	___ 51-100%	Sampler's initials:
Percentages:	Deciduous:	___ 0-5%	___ 6-50%	___ 51-100%	

NOTE: ONLY PERFORM THE CONIFER STEM COUNT IF YOU HAVEN'T IN THE PAST FIVE YEARS.

Conifer Stem Count:	Number of conifer stems:	_____	Sampler's initials:
<i>(If >60, write ">60" & stop counting, unless your reach is larger than 100' X 100'--see field protocol.)</i>			

Bankfull width = (d @ rbfull) - (d @ lbfull) =	_____	<i>(Needed for Erosion/Revetment, Pools protocols)</i>
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Erosional Areas:		Probable causes -- check all that seem to apply (see protocol):						Sampler's initials:
Length	Height	Slopefail	Undercut	Scour	LWD	Bank Alt	Other (indicate:)	

Revetted Areas:		Type of revetment -- check all that apply (see protocol):						Sampler's initials:
Length	Blanket	Bulkhead	Spurdike	Chk dam	LWD	Bio-eng	Other (describe:)	

Pools:		Pool-forming factors -- check all that apply:						Sampler's initials:
Res Dep	Wood	Rocks	Roots	Bend	Banks	Beaver	Other (describe:)	

Large Woody Debris Tally:		Tally according to point of lowest intrusion :		Sampler's initials:
<i>(After tallying, write out and circle the totals in each box.)</i>	Dead/dying logs:	Wetted channel	Bankfull channel	
	Living logs:			
	Rootwads:			
	Logjams:			

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

pH meter calibration (must do at the beginning of each sampling day) **Sampler's initials:** _____
 Has this already been done today? **Yes / No** If "yes," on what data sheet is the information? _____
 (If not, you'll need to do it now.)

Meter #	Time	pH7 pre-cal rdgs		pH7 post-cal rdgs		Expected pH (from chart) (to .01)	Differ- ence	Diff ≤ 0.10? (Yes/No)
		pH7 exp date	pH10 exp date	temp (to 0.1)	pH (to .01)			

YSI-60 pH meter: pH: _____ (to nearest 0.1 pH unit; expected range 6.5 - 8.5) **Sampler's initials:** _____

pH 7 post-check:	temp (to 0.1)	meter pH (to 0.01)	Expected pH (from chart below) (to .01)	Difference between meter pH & expected pH (to .01)	Is the difference ≤ 0.10? (Yes/No)
(Do at every site... ...but do <u>after</u> replicates if you're doing replicates)					

pH buffer values at various temperatures			
Temp	pH 4	pH 7	pH 10
0°C	4.01	7.13	10.34
5°C	4	7.1	10.26
10°C	4	7.07	10.19
15°C	4	7.05	10.12
20°C	4	7.02	10.06
25°C	4.01	7	10

Turbidity: Last calibration date on turbidimeter*: ___/___/___
Field calibration check: Perform using sealed "reference standard" vial
 with the higher number on its cap. (See written protocol for details.)
 • # of NTU's listed on this reference vial: _____ Expiration date: ___/___/___
 • Turbidimeter reading for this reference vial: _____ (to nearest 0.01 NTU)
 Rdgs to nearest **whole #** of NTU's: 1 ___ 2 ___ 3 ___ **average** ___
 (Expected values <5 unless water is high; average should be to nearest whole number.)

Turbidity sampler's initials: _____

Air temperature/thermometer: _____ °C (to nearest whole °C) **Sampler's initials:** _____

Barometric pressure: _____ Units: in / mm / mbar (to nearest 0.01) **Sampler's initials:** _____

YSI-85 multimeter Calibration dates*: Winkler DO: ___/___/___
 #/name written on meter: _____ Conductivity: ___/___/___
 Temperature: ___/___/___
 Time (nearest min): _____ a.m. / p.m. (circle)

**You only need to record calibration dates if you're not reporting the data to Streamkeepers*

	Expected ranges:	Additional readings:	Sampler's initials:
Water temp: _____ °C (to nearest 0.1°C)	1-20 °C		
DO % Saturation: _____ % (to nearest 0.1%)	70-120%		
DO Concentration: _____ mg/L (to nearest 0.1 mg/L)	6-15 mg/L		
Conductivity*: _____ μS (to nearest whole #)	25-400 μS		
Salinity: _____ ppt (to nearest 0.1 ppt)	0-35 ppt		

***Note:** There are two conductivity screens, both with the "μS" symbol; the only difference between them is that **on the correct screen, the "°C" temperature symbol does not flash**, and on the wrong one, it flashes. Also:
 • If the screen reads "mS" (milliSiemens), you must multiply the reading by 1000 to convert to μS (microSiemens).
 • If the screen reads 0, please redo the sampling procedure.
 • Don't confuse it with the salinity ("ppt") screen, which in freshwater should be near zero.

Replicates at This Reach? Yes ___ No ___

YSI-60: pH: _____ (to nearest 0.1 pH unit) **Sampler's initials:** _____

Turbidity readings to nearest whole # of NTU's: 1 ___ 2 ___ 3 ___ **avg** _____ **Sampler's initials:** _____

YSI-85: Time to nearest minute: _____ a.m. / p.m. (circle one) **Sampler's initials:** _____

Water temp: _____ °C (to nearest 0.1°C)
 DO % Saturation: _____ % (to nearest 0.1%)
 DO Concentration: _____ mg/L (to nearest 0.1 mg/L)
 Conductivity*: _____ μS (micro-Siemens--to nearest whole #)
 Salinity**: _____ ppt (to nearest 0.1 ppt)