Stream Sampling - Site Documentation
Form 1

Basic Site Information

Forest Name: | **Wilderness Name (if applicable):**

Stream Name (USGS): | **Stream Name (Local):**

Site Name: | **Site ID:**

Date of Visit: | **Visit:** ☐ Initial ☐ Subsequent

Field Team Leader:

Affiliation:

Phone: | **Email:**

Access: ☐ Vehicle ☐ Short Hike (< 1 hr) ☐ Long Hike (> 1 hr) ☐ Overnight Hike

Travel Directions to Stream Sampling Site and Access Information:

Site Verification, GPS Information and Tagging

Stream Verified: ☐ Yes ☐ No

Site has been verified by (check all that apply): ☐ GPS ☐ Local Contact ☐ Signs ☐ Vegetation ☐ Roads ☐ Topo Map ☐ Photos ☐ Other

GPS Information **Latitude** (DD) __ __ . __ __ __ __ __ __ **GPS Accuracy:** ☐ ft. ☐ m

Datum: **Longitude** (DD) -__ __ __ . __ __ __ __ __ __ **Elevation:** ☐ ft. ☐ m

Site Tag has been Affixed? ☐ Yes ☐ No ☐ New Tag ☐ Existing Tag **Tag Tree Species:**

Describe tag tree location relative to stream sampling site:

Site Assessment (Observations within 20 m of streambank)

Streambank Character (use % classes below)

_____% Forest/Shrub
_____% Open Herbaceous
_____% Wetland
_____% Barren (beach/rock)
_____% Agriculture
_____% Developed
_____% Shoreline Mod. (dock, riprap)

Rare (< 5%) Moderate (25-75%)
Sparse (5-25%) Extensive (> 75%)

Dominant Age Class (forested areas only)

☐ 0 - 10 years
☐ 10 - 25 years
☐ 25 - 50 years
☐ > 50 years

What are the dominant plant species (if known)?

Is there beaver activity near the sample site?

Signs of Beaver: ☐ None ☐ Rare ☐ Common

Beaver Flow Modifications: ☐ None ☐ Minor ☐ Major

Watershed Assessment

What percent of the watershed above the sample site is?

_____% Hardwoods
_____% Conifers
_____% Mixed Forest
_____% Exposed Rock
_____% Herbaceous/Shrubs
_____% Tallus
_____% *Total*

Primary lithology type:

Note additional significant lithology types:

What is the watershed area above the sample site? _____ ☐ ha ☐ ac

What is the watershed aspect (degrees)**?** _____°

What is the average slope of the watershed? _____%

What is the stream order of the sample site (use NHD dataset)? _____

Stream Sampling - Site Documentation
Form 2

Stream Name (Local):	Date of Visit:
Site Name:	Site ID:

Photo Log

Photo ID/File Name	Date	Description of Photo

Description and Sketch of Site

Additional Notes

Stream Sampling - Sample Record
Form 3

Basic Site Information

Forest Name: **Wilderness Name (if applicable):**

Stream Name (USGS): **Stream Name (Local):**

Site Name: **Site ID:**

Date of Visit: **Arrival Time** (24hr): ☐ Standard ☐ Daylight Saving

Field Team Leader:

Affiliation:

Phone: **Email:**

Are there any suggested revisions to the Site Documentation Forms 1 and 2 (select the area of revision below)?

☐ GPS Information ☐ Stream Description ☐ Site Description ☐ Access/Travel Information

Describe suggested revision:

Water Samples and Replicates

Time Sampled	*Sample ID*	*Sample Type (reg, rep ,blank)*	*Bottle Type (plastic, glass, syringe)*	*# of Bottles or Syringes*	*Bar Code*

Collection Location (explain any deviation from targeted sampling location):

General Observations

Time Obtained (24 hr): **Air Temperature:** ☐ ^{o}C ☐ ^{o}F

Water Temperature (at sample location): ☐ ^{o}C ☐ ^{o}F **Instrument Used:**

What is the weather condition on the day of sampling? ☐ Clear ☐ Partly Cloudy ☐ Overcast ☐ Hail ☐ Light Rain ☐ Occasional Rain ☐ Persistent Rain ☐ Snow or Sleet

What was the weather for the 3 days prior to day of sampling? ☐ Generally Dry ☐ Occasional Rain/Snow ☐ Generally Wet ☐ Very Wet

Average stream depth at sample location: ☐ ft ☐ in ☐ m ☐ cm

Average stream width at sample location: ☐ ft ☐ in ☐ m ☐ cm

Discharge Level: ☐ No Flow ☐ Low Flow ☐ Normal Flow ☐ Flood

Deliver method to laboratory: ☐ Vehicle ☐ Overnight Shipping ☐ Other (explain):

Stream Sampling - Sample Record
Form 4

Stream Name (Local):	**Date of Visit:**
Site Name:	**Site ID:**

On Site Water Data (optional)

Time Obtained (24 hr)

Parameter	**Value**	**Equipment** (make/model)	**Method/Reference** (EPS/SM/USGS)
Conductivity	uS/cm Corrected to 25^0 C? ☐ Yes ☐ No		
pH			
Turbidity	_____NTU		
Dissolved Oxygen	mg/l %DO		
Water Temperature	☐ ^oC ☐ ^oF		
Other			

Photo Log

Photo ID/File Name	**Date**	**Description of Photo**

Additional Notes

Stream Sampling - Sample Record
Form 5

Stream Name (Local): **Date of Visit:**

Site Name: **Site ID:**

Stage and Discharge Data

General Information

Time Obtained (24 hr): ☐ **Not obtained in field.**

Method of determining stage and/or discharge (check all that apply below) ☐ **None**

- ☐ Cross section of depth measurements.
- ☐ Velocity-area procedure (number of sets of measurements taken_____).
- ☐ Salt dilution method.
- ☐ Relative stage comparison with nearby fixed gage.
- ☐ Stage measurement with pressure transducer.
- ☐ Stage measurement with staff gage.
- ☐ Timed filling procedure (number of spillways measured_____).

Stage Measurement Only

Stage relative to fixed gage: _____ ☐ ft ☐ in ☐ m ☐ cm

Location of fixed gage measurement relative to stream sampling site

Stage measurement with staff gage _____ ☐ ft ☐ in ☐ m ☐ cm

Location of fixed gage measurement relative to stream sampling site

Existing ratings curve? ☐ Yes ☐ No **If yes, referenced to what?**

Mid-channel stream depth at sample location: ☐ ft ☐ in ☐ m ☐ cm

Discharge Measurement by Velocity-Area Procedure

Velocity-area procedure? ☐ Yes ☐ No **Depth:** _____ ☐ ft ☐ in ☐ m ☐ cm **Velocity:** ☐ m/s ☐ ft/s

Stream width at measurement location: ☐ ft ☐ in ☐ m ☐ cm

Interval	1	2	3	4	5	6	7	8	9	10
Depth										
Velocity										
Interval	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
Depth										
Velocity										

Discharge Measurement by Timed Filling Procedure

Timed filling procedure? ☐ Yes ☐ No **Time:** ☐ min ☐ sec **Volume:** ☐ L ☐ gal

Spillway Number	Time to Fill Measure Volume									
	Trial 1		Trial 2		Trial 3		Trial 4		Trial 5	
	Time	Volume	Time	Volume	Time	Volume	Time	Volume	Time	Volume
1										
2										
3										

Additional Notes