Stream Location and Conditions

(Use a new data sheet for each stream section surveyed) **Module 1**

Stream Name/Nearest Town:	Date:
	Watershed code:
Organization Name:	
Contact Name:	Phone:
Crew Names:	Email:
	Stream Section:
Crew Number:	Length Surveyed:

Survey Start Point (for GPS, use 'degrees decimal')

GPS: Latitude	Longitude	Start Time:
Location (distance from known stream landmark, directions to benchmark)		
Time: _____ Weather: ❑ clear ❑ overcast ❑ shower (1-2.5 cm in 24 hr.) ❑ storm (<2.5 cm in 24 hr.) ❑ snow ❑ rain on snow		
Water turbidity (cm visibility) _____	Temperature °C (leave thermometer 2 min.) air _____ water _____	
Measurements taken every m		
Bankfull Channel width (m)	Average depth	(m)
Wetted Channel width (m)	Average depth_	(m)

Survey End Point (for GPS, use 'degrees decimal')

GPS: Latitude	Longitude	End Time:
Location (distance from known stream landmark, directions to benchmark)		
Weather ❑ clear ❑ overcast ❑ shower (1-2.5 cm in 24 hr.) ❑ storm (<2.5 cm in 24 hr.) ❑ snow ❑ rain on snow		
Water turbidity (cm visibility) _____	Temperature °C (leave thermometer 2 min.) air _____ water _____	
Measurements taken every m		
Bankfull Channel width (m)	Average depth	(m)
Wetted Channel width (m)	Average depth_	(m)

First and Last Measurements taken 0.1 m from streambank edge

(Start Point)

Left Bank	0.10															**Right Bank**
Wetted Depth																Wetted Depth
Bankfull Depth																Bankfull Depth

(End Point)

Left Bank	0.10															**Right Bank**
Wetted Depth																Wetted Depth
Bankfull Depth																Bankfull Depth

Take measurements every 0.5m in streams less than 5m wide, every 1m in streams 5 to 15m

Total Survey Hours (H.mm) _____

Stream Reconnaissance Field Data Sheet

Feature Information con't **Module 1**

Feature #	Photo (Y or N)	*m* from last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns

* *Adjacent Land Use Codes:* **U***ndisturbed,* **A***griculture,* **F***orestry,* **R***esidential,* **P***arks,* **C***ommercial,* **I***ndustrial*

General comments on this section of the stream

Stream Reconnaissance Field Data Sheet

Identifying and Describing Features

Note whether feature is on the left or right bank (facing *downstream)*

Stream Feature Description Checklist

BANK EROSION
slumping bank, undercut, upslope slide, other
- Measure length, height and slope.

GARBAGE
commercial/industrial source, residential/recreational source, other
- Measure length, type and quantity.

SIDE CHANNEL
dry channel, flowing channel, other
- Measure length, depth and width of Wetted area. Take temperature readings.

LACK OF RIPARIAN VEGETATION
human induced, natural phenomenon, other
- Measure length, width and slope.

WETLAND
bogs, marshes, swamp, pond, other
- Measure length, depth and width. Take temperature readings.

WATER BODY
Tributary, wetland, ditch, other
- Measure bankfull and Wetted channel widths and depths, (Optional: compass bearing 10m upstream of confluence, and 25m or at major bends. Measure gradient.)
- In water body - take temperature readings 2m upstream of confluence.
- In main stem - take temperature readings 2m upstream and 2m downstream of confluence.

ENHANCEMENT
log/rock weir, fishway
- Measure length and width, and height of structure to fish access, plunge pool depth.

ENHANCEMENT (con't)
riparian planting, woody debris placement, spawning gravel placement
- Measure length and width

incubation box/hatchery
- Measure length, width and height

constructed pond/side channel
- Measure length, width and depth. Take temperature.

boulder cluster
- Measure length and width and approximate size of boulders.

ARTIFICIAL MODIFICATION
dam
- Measure length, width and height of structure, and depth of plunge pool.

dredging, channelization, retaining wall, instream crossing, fence
- Measure length and width.

bridge
- Measure length and width, height from substrate to bridge deck, depth of water.

culvert
- Measure height/width or diameter - height from substrate to bottom of structure - if flowing, temperature in flow. In main stem - 2m upstream and 2m downstream.

rip-rap
- Measure length, width, slope and approximate size of material.

other

Measure length, width and height

OBSTRUCTION

culvert

- Measure height/width or diameter - height from substrate to bottom of structure, depth of water at base - if flowing, temperature in flow. In main stem - 2m upstream and 2m downstream.

log jam

- Measure length, width and vertical height from substrate to top of jam.

dam

- Measure length, width and vertical height from substrate to top, depth of water at base.

beaver dam

- Measure length, width and vertical height from substrate to top, depth of water at base.

falls, cascade, canyon

- Measure length, width and vertical height and slope, depth of water at base.

fence

- Measure length, vertical height, height from substrate to bottom of fence, depth of water at base.

bridge

- Measure length and width, height from substrate to bridge deck, depth of water.

DISCHARGE PIPE

septic effluent

- Measure height/width/diameter. Height from substrate to bottom of pipe, depth of water.
- DO NOT TOUCH!

industrial outfall

- Measure height/width/diameter. Height from substrate to bottom of pipe, depth of water.
- DO NOT TOUCH!

DISCHARGE PIPE (con't)

tile drain

- Measure height/width/diameter. Height from substrate to bottom of pipe, depth of water. If discharging, take temperature in flow, then in main stem, 2m upstream and 2m downstream.

storm drain

- Measure height/width/diameter. Height from substrate to bottom of pipe, depth of water. If discharging, take temperature in flow, then in main stem, 2m upstream and 2m downstream.

trench

- Measure length/height/width.
- If discharging, take temperature in flow, then in main stem, 2m upstream and 2m downstream.

LIVESTOCK ACCESS

streamside grazing

livestock crossing

- Measure affected length and width of stream.

WATER WITHDRAWAL

Screened intake

- Measure length and width of intake and mesh size.

unscreened intake

- Measure length and width of intake.