

# Centre County Senior Environmental Corps

## Water Monitoring Site Physical & Chemical Data Recording Sheet

<b>SITE ID#</b>	<b>LATITUDE:</b>	<b>LONGITUDE:</b>
<b>STREAM CODE:</b>	<b>RIVER MILE INDEX:</b>	
<b>SITE NAME &amp; DESCRIPTION:</b>		
<b>DATE:</b>	<b>TIME:</b>	<b>RECORDER:</b>
<b>MONITOR:</b>	<b>MONITOR:</b>	
<b>MONITOR:</b>	<b>MONITOR:</b>	
<b>MONITOR:</b>	<b>MONITOR:</b>	

<b>PRECIPITATION – Choose one for past 24 hrs. and one for current weather</b>	
<b>Past 24 hrs</b>	<b>Current</b>
Storm	Storm
Rain	Rain
Showers	Showers
Overcast	Overcast
Clear	Clear
<b>WATER APPEARANCE – choose at least one</b>	
Clear	Foamy
Orange/Red	Milky/White
Dark Brown	Muddy/Cloudy
Green	Multi-Colored
Other	Non-Wadable Stream
<b>WATER ODORS – choose at least one</b>	
Chlorine	Fishy
Sulfur	Sewage
Musty	Earthy
Moldy	Spicy
Other	No Unusual Smells
Non-Wadable Stream	
<b>ICE/SNOW Info</b>	
Ice Coverage, if any in %	
Snow Depth, if any in inches	

<b>SOIL ODORS – in stream bed at test site – choose at least one</b>	
Chlorine	Fishy
Sulfur	Sewage
Musty	Earthy
Moldy	Spicy
Other	No Unusual Smells
Non-Wadable Stream	
<b>SEDIMENT DEPOSITS – choose at least one</b>	
Sludge	Paper Fiber
Saw Dust	Sand
Other	No Unusual Sediments
Non-Wadable Stream	
<b>STREAM TYPE – look upstream and downstream</b>	
( ) Estimate?	
Straight	Channelized
Meandering/Curving	Pool/Riffle
Braided	Dams
	High Water Mark (mtrs)
<b>STREAM BANK CROSS SECTION</b>	
V-Shaped	No Sign of Erosion
U-Shaped	Occasional Erosion
Rectangular	Extensive Erosion
Banks Undercut	Artificial Stabilization

Notes:

<b>STREAM BOTTOM – at least one entry inorganic + organic = 100%</b>				<b>Stream Flow using Flowmeter:</b>			
Inorganic Est. by %	%	Organic Est. by %	%	Segment #	Depth (cm)	Velocity (cm/sec)	↑ Enter values for width, depth and velocity in the CcPaSEC online stream flow calculator to calculate flow. Record results in cubic meters/sec.
Bedrock (solid)		Muck-Mud		1			
Boulder >25 cm		Pulpy Peat		2			
Cobble 6.25 cm – 25 cm		Fibrous Peat		3			
Gravel 0.25 cm – 6.25 cm		Detritis		4			
Sand up to .25 cm		Logs, Limbs		5			
Silt Soft Fine Sand		Marl (gray, shell frag.)		6			
Clay Sticky Fine Sand		Other		7			
Other		Non-Wadable Stream		8			
TOTAL = 100%				9			
<b>PREDOMINANT SURROUNDING LAND USE est. by % - at least one entry required</b>				10			
	%		%	Fill in 11-20 below only if needed.			
Wetlands		Commercial		11			
Forest		Industrial		12			
Cropland		Unused/Abandoned		13			
Pasture		Overgrown shrubs/sm. tree		14			
Residential		Other		15			
TOTAL = 100%				16			
				17			
				18			
				19			
				20			
				<b>Width (meters):</b>			
<b>TEMPERATURE (°C)</b>		Air:	Dupl:	Water:	Dupl:	Avg Air	Avg Wtr
<b>CHEMICALS – every 6 monitoring visits take a field duplicate – question results beyond the norm</b>							
TEST *indicates Colorimeter only	Healthy Water Range *indicates Colorimeter	Test Range Hach/ Oakton Ranges YSI, Hanna for DO	Results Hach/ Oakton	Dupl.	Cal. Std./ DO Results YSI or Hanna	Test Range *Colorimeter Range	*Color- imeter Results
pH	6 – 9	0 – 14	Oakton or Hach		Cal. Std.		NA
Dissolved Oxygen	5 – 12 mg/L	0.2 – 20 mg/L	NA		DO - YSI or Hanna	0 – 15.0 mg/L *	
Specific Conductance	150 – 500 µS/cm	100 – 1999 µS/cm	Oakton		Cal. Std.		NA
Nitrates (NO3) Hach	< 4.4 mg/L	0 – 44 mg/L NO3	Hach Kit		NA		NA
Nitrate-Nitrogen (NO3-N) *	< 1.0 mg/L* NO3-N	High Range Test → Low Range Test →	NA		NA	0 – 30 mg/L * 0 – 0.50 mg/L*	
Total Phosphates	≤ 0.1 mg/L	0 – 50 mg/L	Hach Kit		NA		NA
Ortho Phosphates *			NA		NA	0 – 2.50 mg/L *	
Sulfates	≤ 250 mg/L	50 – 200 mg/L	Hach Kit		NA	0 – 70 mg/L *	
Total Alkalinity	>20 mg/L	5 – 400 mg/L	Hach Kit		NA		NA
Tot. Dis. Solids (TDS)	≤ 750 mg/L	0 – 999 mg/L	Oakton		NA		NA
Salinity		0 – 999 ppm	Oakton		NA		NA